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DOE/NV-654

CLOSURE REPORT FOR CORRECTIVE ACTION UNIT 486: DOUBLE TRACKS RADSAFE AREA, NELLIS AIR FORCE RANGE, NEVADA

Controlled Copy No.:_______

Revision 0

December 2000

Prepared for the U.S. Department of Energy Nevada Operations Office under Contract No. DE-AC08-96NV11718

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DOE/NV-654

CLOSURE REPORT FOR CORRECTIVE ACTION UNIT 486: DOUBLE TRACKS RADSAFE AREA, NELLIS AIR FORCE RANGE, NEVADA

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Environmental Restoration Division

Date: $\frac{12/21/0}{1}$

Date: 2/2/200

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BN	Bechtel Nevada
cm ²	Square centimeters
CADD	Corrective Action Decision Document
CAIP	Corrective Action Investigation Plan
CAP	Corrective Action Plan
CAS	Corrective Action Site
CAU	Corrective Action Unit
CR	Closure Report
dpm	Disintegrations per minute
DOE/NV	U.S. Department of Energy, Nevada Operations Office
DTRSA	Deuble Treate Dediclosical Cofety Area
DIKSA	Double Tracks Radiological Safety Area
EPA	U.S. Environmental Protection Agency
EPA	U.S. Environmental Protection Agency
EPA FIDLER	U.S. Environmental Protection Agency Field Instrument for the Detection of Low Energy Radiation
EPA FIDLER FFACO	U.S. Environmental Protection Agency Field Instrument for the Detection of Low Energy Radiation Federal Facility Agreement and Consent Order
EPA FIDLER FFACO ft	U.S. Environmental Protection Agency Field Instrument for the Detection of Low Energy Radiation Federal Facility Agreement and Consent Order feet
EPA FIDLER FFACO ft gal	U.S. Environmental Protection Agency Field Instrument for the Detection of Low Energy Radiation Federal Facility Agreement and Consent Order feet gallon

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ACRONYMS AND ABBREVIATIONS (continued)

m³cubic meterNDEPNevada Division of Environmental ProtectionNTSNevada Test SiteTTRTonopah Test RangeUXOUnexploded Ordnanceyd³cubic yard

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EXECUTIVE SUMMARY

The Double Tracks Radiological Safety Area (DTRSA), Corrective Action Unit (CAU) 486, was clean-closed following the approved Corrective Action Decision Document closure alternative and in accordance with the Federal Facility Agreement and Consent Order (FFACO, 1996). The CAU consists of a single Corrective Action Site, 71-23-001-71DT.

The DTRSA was used during May 1963 to decontaminate vehicles, equipment, personnel and animals from the Double Tracks Test. Double Tracks was one of four storage-transportation tests. The Double Tracks test was conducted in Stonewall Flat, approximately 32 kilometers (20 miles) east of Goldfield, Nevada, on the Nellis Air Force Range. The Double Tracks Test used a single device containing plutonium and depleted uranium and was designed to investigate the characteristics of plutonium-bearing particulate material formed by the non-nuclear detonation of a nuclear weapon.

All facilities associated with the DTRSA operation were removed. Based on available information, the areas of concern at the DTRSA consisted of a decon facility (vehicle decon pad and decon sump) in the southern half of the DTRSA, and a burial pit and former loading/unloading area located in the northern half of the DTRSA.

Based on the results of the Corrective Action Investigation, radiological field screening detected elevated gamma and alpha readings on excavated plastic debris. Swipe surveys taken on the plastic debris detected removable alpha. No contaminants were detected above preliminary action levels in soil samples. The debris excavated during the corrective action investigation was not characterized.

The clean-closure corrective action consisted of excavation, disposal, verification sampling, backfilling, and regrading. Field activities began on May 1, 2000, and ended on May 10, 2000. Soil that was associated with the radiologically contaminated man-made debris was placed into B-25 bins, moved to the designated waste management area where it was scanned, and hauled off-site for disposal. Verification soil samples were collected and analyzed to determine if clean closure had been achieved. Clean borrow soil was hauled to the site and used to backfill the excavation. The excavation was then regraded to promote drainage and minimize ponding of surface water. Since the site is clean-closed, post-closure care is not required.

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1.0 INTRODUCTION

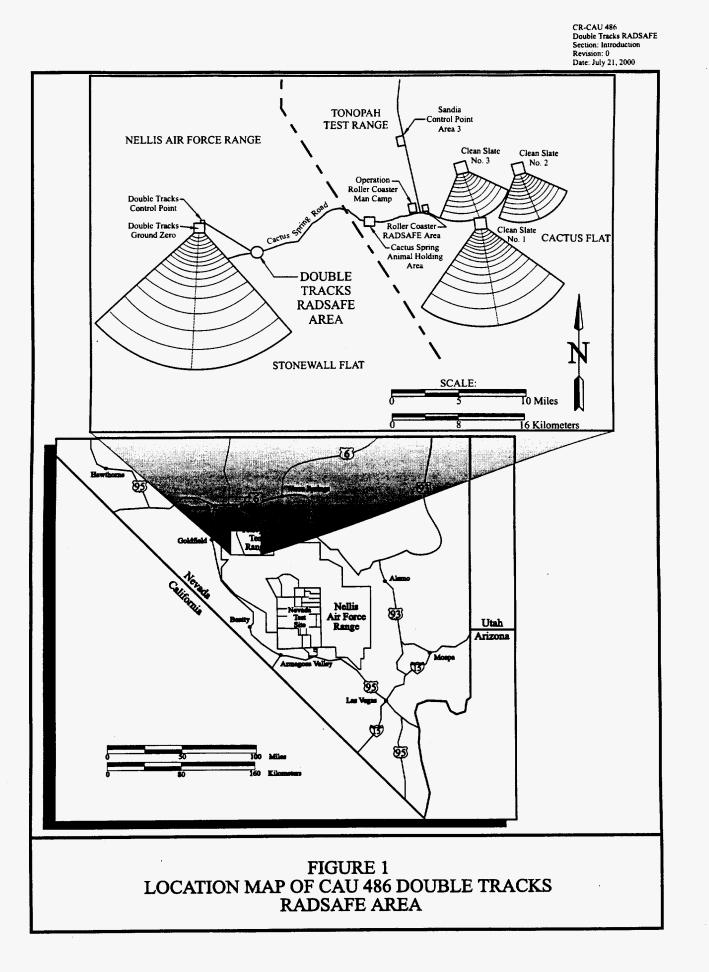
This Closure Report (CR) describes the remediation activities performed at the Tonopah Test Range (TTR) Double Tracks Radiological Safety Area (DTRSA) which was used during May 1963 to decontaminate vehicles, equipment, personnel, and animals from the Double Tracks Test. The DTRSA is identified in the Federal Facility Agreement and Consent Order (FFACO) of 1966 as Corrective Action Unit (CAU) 486 (FFACO, 1996). Remediation of CAU 486 is required under the FFACO (FFACO, 1996). CAU 486 consists of the following Corrective Action Site (CAS) at the TTR (Figure 1):

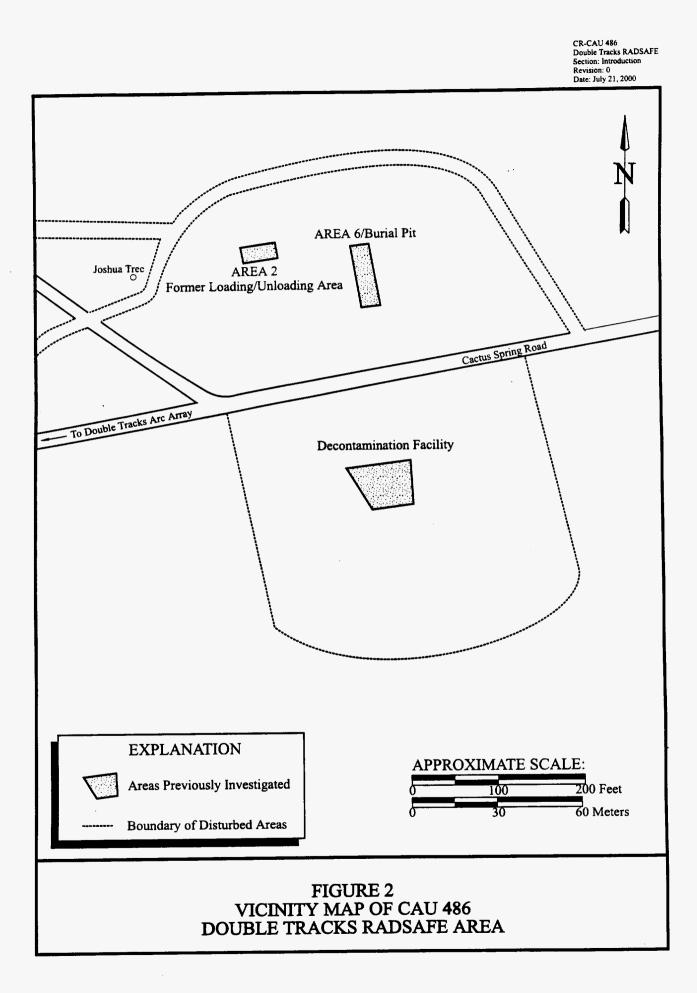
CAS 71-23-001: Double Tracks Radiological Safety Area

1.1 PURPOSE

The purpose of this CR is to provide documentation of the completed corrective action and to provide data confirming the corrective action. The corrective action was performed in accordance with the approved Corrective Action Plan (CAP) (U.S. Department of Energy [DOE/NV], 1999a) and consisted of clean closure by excavation and disposal.

A complete site history for the CAS is provided in the Corrective Action Investigation Plan (CAIP) U.S. Department of Energy, Nevada Operations Office (DOE/NV, 1998). Corrective action investigation activities were performed from November 16 through December 4, 1998, in two separate phases following the CAIP. Phase I was to locate the previous site features and dimensions using a backhoe. The areas investigated were the former Decontamination Facility, Burial Pit (Area 6) and the loading/unloading location (Area 2) (Figure 2). Phase II was the subsurface investigation consisting of soil sample collection from the three areas of the site. Of the three areas investigated, only the Burial Pit/Area 6, located in the northern half of the DTRSA contained waste. The material consisted of chicken wire, pieces of lumber, cloth, and plastic. A "contaminated material" sticker was observed on the plastic. Radiological field screening conducted on the man-made debris showed an elevated gamma count of 15,600 counts per minute using the Field Instrument for the Detection of Low Energy Radiation (FIDLER). Beta counts were below field screening levels. A swipe sample taken from the plastic detected removable alpha of 283 disintegrations per minute (dpm) per 100 square centimeters (cm²). Plutonium and uranium were not detected above minimum detectable activity levels in soil samples collected (DOE/NV, 1999b). The vicinity and area investigated are shown in Figure 2.





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1.2 SCOPE

The corrective action as implemented consisted of the following activities:

- Preplanning and site preparation, including preparation of plans and permits, delineation of excavation boundaries, and mobilization of equipment and personnel to the site.
- Excavating impacted material. The excavated material was staged in a designated waste management area at the DTRSA pending transfer to the Nevada Test Site (NTS).
- Inspecting the excavation visually, and collecting verification soil samples for laboratory analysis. Based on results of verification samples, additional excavation was not required.
- Backfilling.
- Regrading the excavation to promote drainage and minimize ponding of surface water.
- Cleaning up the site, including disposal of site surface debris left by previous investigations, and removal of fencing.

1.3 CLOSURE REPORT CONTENTS

This document is divided into the following sections in accordance with the approved FFACO CR standardized outline:

- Section 1.0 Introduction (purpose, scope, contents).
- Section 2.0 Closure Activities (description, deviations, schedule, site plan).
- Section 3.0 Waste Disposition (wastes encountered and their appropriate disposal).
- Section 4.0 Closure Verification Results (laboratory analysis).
- Section 5.0 Summary and Recommendations.
- Section 6.0 References.

Certain sections and appendices of this document have been modified from the approved FFACO outline. The following FFACO sections and appendices have not been included or revised as indicated below:

- Use Restriction Not applicable. The site was clean-closed.
- Closure Certification Not applicable.

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- As-Built Documentation Not applicable. No engineered structures were constructed.
- Modifications to the Post-Closure Plan Not applicable. The site was clean-closed.
 The appendices included in this document are provided as follows:
- Appendix A: Photographs of Closure Activity Work Areas.
- Appendix B: Waste Disposition Documentation.
- Appendix C: Verification Sample Analytical Reports.
- Appendix D: Field Notes.

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2.0 CLOSURE ACTIVITIES

This section of the CR details the specific corrective action activities implemented and completed during the closure of CAU 486. This section also provides a detailed schedule of site activities as completed. Photographs showing the work areas before, during, and after closure activities are included in Appendix A.

2.1 DESCRIPTION OF CORRECTIVE ACTION ACTIVITIES

2.1.1 Preplanning and Site Preparation

Planning documents prepared prior to beginning CAU 486 corrective action activities include the CAP (DOE, 1999a), Field Management Plan (Bechtel Nevada [BN], 2000a), Site Specific Health and Safety Plan (BN, 2000b), a construction work package, and an excavation permit. Above-ground and underground utilities were surveyed prior to starting work. No utilities were found as the site is a remote location of the Nellis Air Force Range. An unexploded ordnance (UXO) survey was conducted by U.S. Air Force Explosive Ordnance Disposal (EOD) specialists prior to starting work. UXO was not found at this location. In addition, a National Environmental Policy Act checklist was prepared and approved. Planned excavation boundaries were identified. A Readiness Review meeting was conducted on April 25, 2000. On April 26, 2000, the pre-job briefing was held and personnel and equipment began the mobilization to the site.

2.1.2 Excavation of the Area 6/Burial Pit

The Corrective Action Decision Document (CADD) (DOE/NV, 1999b) identified one location in the Area 6/Burial Pit where a "contaminated material" sticker was observed on a plastic bag. Radiological field screening conducted on the man-made debris showed an elevated gamma count of 15,600 counts per minute using the FIDLER. A swipe sample taken from the plastic detected removable alpha of 283 dpm per 100 cm². The recommended closure (DOE/NV, 1999b) includes clean closure for Area 6/Burial Pit by excavation and disposal. Since the extent of debris was not verified during the characterization efforts, the CAP (DOE/NV, 1999a) called for the excavation of three trenches within the burial pit to a minimum depth of 1.5 meters (m) (5.0 feet [ft]) below ground surface (bgs) using backhoe equipment. A central trench, approximately 23 m (75 ft) long, was to be excavated; and two additional trenches, approximately 9 m (30 ft) long, were to be excavated on either side of the central trench. Once debris was observed in a trench, the trench was to be extended laterally and vertically to delineate the extent of the debris to be removed.

On May 1, 2000, the mobilization and the Explosive Ordnance Disposal survey were completed. On May 02, 2000 the excavation of the Area 6/Burial Pit was begun. Using a backhoe, the first 0.6 m (2 ft) of soil was excavated and stockpiled as clean fill at the south end of the location.

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At a depth of 0.76 m (2.5 ft), scrap metal and plastic debris was uncovered. No elevated radioactive readings were detected. A second stockpile was started, containing soil and manmade debris.

At 0.91 m (3.0 ft) bgs, wire, wood, and plastic was observed. No elevated radioactive readings were detected. The floor of the excavation at this point averaged 1.06 m (3.5 ft). A "pothole" was dug at the middle borehole, "NB3", as identified in the CADD (DOE/NV, 1999b). Total depth of the pothole was 2.0 m to 2.1 m (6.5 ft to 7.0 ft bgs). Pothole NB3 was obviously a debris-layer portion of the Burial Pit excavation, however there was only a slight elevation in radiological activity (±200 dpm). The first B-25 bin was moved into the Exclusion Zone (EZ) and the first lift of soil and debris was placed into the bin. The Remote Sensing Laboratory personnel installed the High Purity Germanium (HPGe) detector over the bin and surveyed for radiological activity. No elevated radiological activity readings were detected. The second and third lifts were added to the bin with each lift checked with the HPGe detector. No elevated radiological activity readings were detected with any of the three instruments used on the project (Electra, FIDLER, and the HPGe). All debris at this point was trash, not hotline material as expected. The width of the "6NT1 trench", identified in the CADD (DOE/NV, 1999b) as the trench containing "radiologically contaminated debris" was extended 1.82 m (6.0 ft). One plastic bag was found with Radiological Control tape ("Contaminated Material") attached. The debris in the plastic bag consisted of tape, paper, food packaging, etc. No hotline waste was found. No elevated radiological activity readings were detected from this debris. The length and width of the excavation were extended and three more bags of trash were recovered with no elevated radiological activity readings.

One B-25 was set off to the side for any obviously radiological material or debris indicating elevated radiological activity. Also, in order to conserve the B-25 containers the decision was made to separate the majority of the clean soil from the other debris. Two B-25 boxes were staged, one being filled with obvious or indicating radiological debris, and the other filled with segmented material such as plastic, wire, wood, etc. As the excavation progressed, besides the abundant trash that was segmented and placed into the "trash" B-25, numerous plastic bags containing hotline trash and some loose debris with elevated radiological activity (300 to 4,000 counts/second [FIDLER]) was placed in the radiological material bin. As the bins were filled they were moved to the Contaminated Storage Area where they were surveyed, weighed, and placarded, pending transport to the NTS.

The completed excavation was visually inspected, all debris was removed, and no staining or discoloration was observed.

Verification soil samples collected in the former Area 6/Burial Pit area are numbered sequentially using the following nomenclature: CAU4860001, CAU4860002, etc. The samples were collected from the bottom of the Area 6/Burial Pit excavation. Details of soil sampling, handling, analyses, and results are discussed in Section 4.1.

On May 10, 2000 approximately 9 cubic meters (m^3) (12 cubic yards $[yd^3]$) of waste soil and compactable trash was transported off the TTR for disposal at the NTS. Waste disposition is discussed in Section 3.0.

2.1.3 Backfilling and Regrading of Excavations

The backfilling operation began on May 8, 2000. Due to the trash segmentation efforts, the source of backfill material (Area 3 Borrow Pit) identified as a pre-project requirement was no longer required. Stockpiled material at the site was sufficient to complete the backfill operation in order to level the area to the existing grade, restore drainage, and minimize ponding of surface water.

The stockpiled soil was subsequently placed in the excavation, and wheel compacted using the backhoe, forklift, or water truck, as needed. Final site regrading was completed on May 10, 2000.

2.1.4 Decontamination of Equipment

After the final load of radiologically contaminated debris was handled, equipment that had contacted the debris (backhoe bucket and shovel) was cleaned by first brushing off visible residue, then washing with a laboratory-grade detergent solution, and followed by a tap water rinse. Equipment decontamination was performed over a B-25 bin in order to contain rinsate in the excavated debris. Less than 4 liters [L] (1 gallon [gal]) of detergent solution and water rinse were used and was completely absorbed (no free liquid) into the waste debris.

Soil sampling scoops were decontaminated before field mobilization using a laboratory-grade detergent solution, an isopropanol rinse and deionized water rinses.

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2.2 DEVIATIONS FROM THE CAP AS APPROVED

No significant deviations occurred from the approved scope of work as outlined in the CAP (DOE, 1999a). The following minor deviations occurred from the approved scope of work:

- Since the extent of debris was not verified during the characterization efforts, three trenches were to be excavated within the burial pit to a minimum depth of 1.5 m (5.0 ft) below ground surface using backhoe equipment. A central trench, approximately 23 m (75 ft) long, was to be excavated. Two additional trenches, approximately 9 m (30 ft) long, were to be excavated on either side of the central trench. Once debris was observed in a trench, the trench was to be extended laterally and vertically to delineate the extent of the debris to be removed. In actuality, one large excavation resulted from chasing debris, which would most likely correspond to the original Area 6/Burial Pit configuration.
- Verification soil samples were collected in fewer locations than planned. It was estimated that a total of fourteen samples would be collected including one duplicate and one equipment blank. The number of samples collected was contingent on the volume of debris encountered in the three trenches. Since one large excavation resulted from the debris removal operation, seven samples were sufficient to adequately represent the floor of the excavation. A duplicate sample and an equipment blank were also collected. Sampling locations were documented in the field and reported in the Technical Lead's log book.
- The actual volume of generated waste varied from the planned volume. A smaller volume of waste soil and compactable hotline trash was disposed (9 m³ [12 yd³]) than planned (22.9 m³ [30 yd³]) because of the efforts to segment this material from the otherwise clean soil.

2.3 CORRECTIVE ACTION SCHEDULE AS COMPLETED

The corrective action field activities began on May 1, 2000, and were completed on May 10, 2000. A corrective action schedule as completed is provided in Table 1.

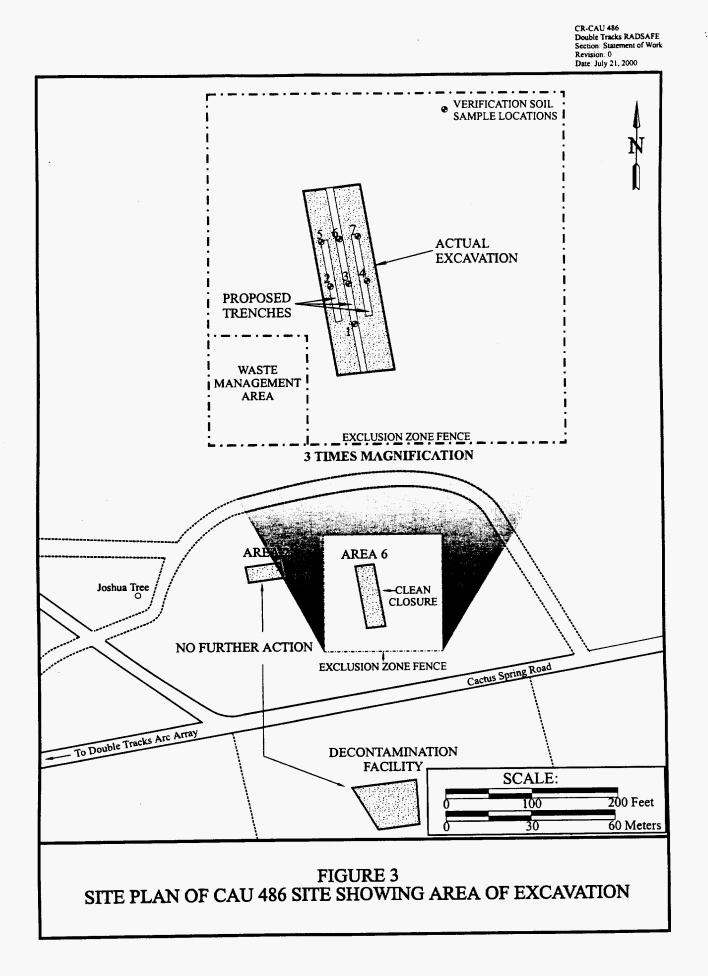
2.4 SITE PLAN/SURVEY PLAT

Survey data were not required for this closure. Because engineered construction was not required as part of this closure, as-built drawings are not included in this Closure Report. Figure 3 shows the location of the verification samples collected and the condition of the site following closure activities.

TABLE 1 CAU 486 CORRECTIVE ACTION SCHEDULE AS COMPLETED

	0										-
EY00											
Early Finish		01MAY00A	25APR00A	26APR00A	08MAY00A	10MAY00A	11MAY00A	11MAY00A	11MAY00A	16OCT00	
Actual Finish		01MAY00	25APR00	26APR00	OBMAYOO	10MAY00	11MAY00	11MAY00	11MAY00		
Actual Start	ĒD	DONALED	25APR00	26APR00	02MAY00	OBMAYOO	10MAY00	11MAY00	11MAY00	11MAY00	
	ETE	2 0	8	2	8	8	~	8	2	2	
Activity Description	CAU 486 CORRECTIVE ACTION PLAN - AS COMPLETED	Preparation for Field Work	Readiness Review	Pre-job Briefing	Excavation Activities	Securing the Site	Transporting Waste to NTS	Waste Management and Disposal Characterization	Waste Disposal	Preparation of Closure Report	
Activity ID	CAU 486	C48601	C48611	C48621	C48625	C48627	C48628	C48631	C48651	C48671	

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3.0 WASTE DISPOSITION

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Wastes generated during the closure of CAU 486 were disposed as follows:

• Approximately 9 m³ (12 yd³) of waste soil and compactable hotline trash was staged onsite in a designated Waste Management Area and then transported off-site as Non-Regulated Waste and received at the NTS Radioactive Waste Management Site in Area 5 for disposal on May 11, 2000.

Waste disposition records, including the Uniform Hazardous Waste Manifest and NTS landfill documents, are available in NTS Waste Operations files and are summarized in Appendix B.

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4.0 CLOSURE VERIFICATION RESULTS

4.1 VERIFICATION SAMPLE ANALYSES

Verification soil samples were collected from seven locations after the excavation reached designated boundaries, removed all debris, and no visible staining was observed. The samples were collected with decontaminated stainless steel sampling scoops and placed in labeled sample containers and then secured with custody seals. A FIDLER was used to help determine if soil samples exceeded background levels. The containers were placed in an ice-filled chest, transported under chain-of-custody to the Analytical Services Laboratory in Mercury, Nevada, for analyses. Samples from all seven locations were analyzed for 20-minute gamma spectroscopy (U.S. Environmental Protection Agency, 1996).

Since no other constituents of concern were identified during site characterization activities, verification samples were only analyzed for 20-minute gamma spectroscopy. The analytical results indicate that no man-made radiation was detected above action levels and confirm that no further excavation is needed. The analytical reports are found in Appendix C.

4.2 USE RESTRICTION

A clean closure was performed at this CAS. Land use is unrestricted. A Post-Closure Plan is not necessary for this site.

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5.0 SUMMARY AND RECOMMENDATIONS

5.1 SUMMARY

The following site closure activities were performed at the CAU 486 site located at the TTR and are documented in this report:

- Preplanning and site preparation.
- Excavating and removing waste.
- Characterizing waste on-site for disposal.
- Collecting verification soil samples.
- Backfilling excavation with stockpiled soil and regraded to promote drainage and minimize ponding of surface water.
- Disposing of excavated materials following applicable federal, state, and DOE regulations.
- The field closure activities conducted at CAU 486 were completed following the approved CAP (DOE/NV, 1999a) with only minor deviations as specified in Section 2.2.

5.2 **RECOMMENDATIONS**

Since the clean closure for CAU 486 has been completed following the Nevada Division of Environmental Protection (NDEP) approved CAP (DOE/NV, 1999a) as documented in this CR, the DOE requests:

- A Notice of Completion be provided by the NDEP to DOE for the closure of CAU 486 (CAS 71-23-001-71DT).
- CAU 486 be moved from Appendix III to Appendix IV of the FFACO "Closed Corrective Action Units."

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6.0 REFERENCES

BN, see Bechtel Nevada.

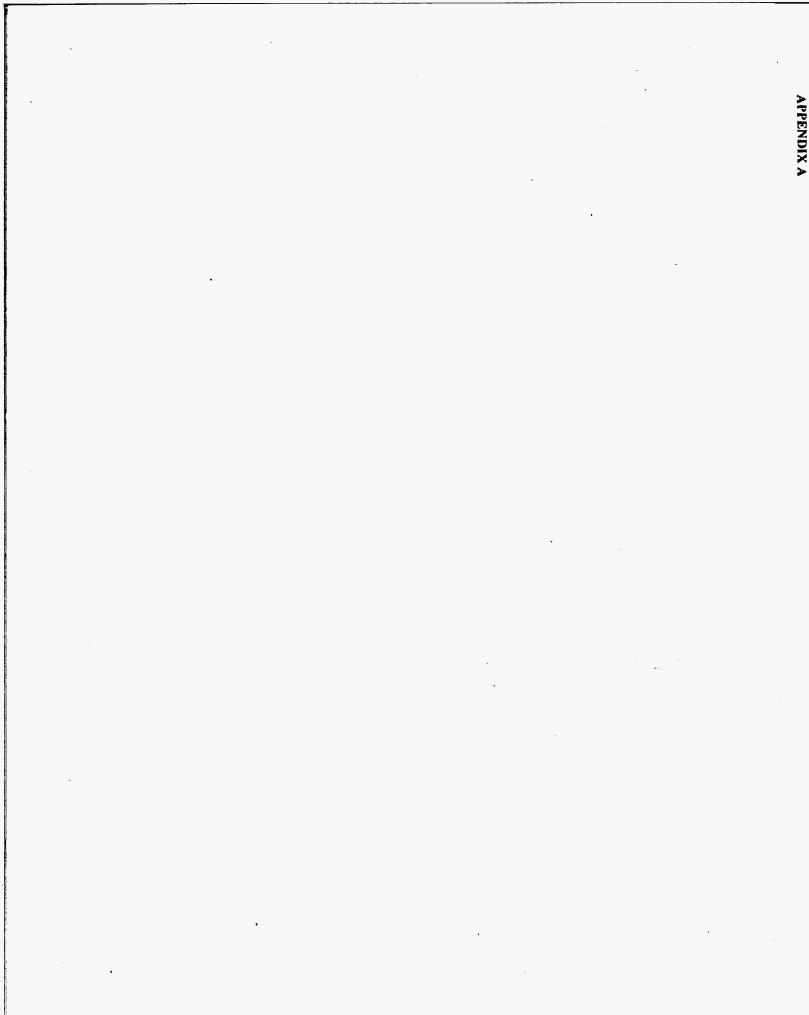
- Bechtel Nevada, 2000a. <u>Field Management Plan for Corrective Action Unit 486: Double Tracks</u> <u>RADSAFE Area, Nellis Air Force Range, Nevada</u>.
- Bechtel Nevada, 2000b. <u>Site Specific Health and Safety Plan for Corrective Action Unit 486</u>: <u>Double Tracks RADSAFE Area, Nellis Air Force Range, Nevada</u>.

DOE/NV, see U.S. Department of Energy.

EPA, see U.S. Environmental Protection Agency

FFACO, see Federal Facility Agreement and Consent Order.

- Federal Facility Agreement and Consent Order of 1996. Prepared by Nevada Division of Environmental Protection, U.S. Department of Energy, and U.S. Department of Defense.
- U.S. Department of Energy, Nevada Operations Office, 1999a. <u>Corrective Action Plan for</u> <u>Corrective Action Unit 486: Double Tracks RADSAFE Area, Nellis Air Force Range,</u> <u>Nevada</u>, DOE/NV--584, Las Vegas, NV.
- U.S Department of Energy, Nevada Operations Office, 1998. <u>Corrective Action Investigation</u> <u>Plan for Corrective Action Unit 486: Double Tracks RADSAFE Area, Nellis Air Force</u> <u>Range, Nevada</u>. DOE/NV--523, Las Vegas, NV.
- U.S. Department of Energy, Nevada Operations Office, 1999b. <u>Corrective Action Decision</u> <u>Document for Corrective Action Unit 486: Double Tracks RADSAFE Area.</u> <u>Nellis Air Force Range, Nevada</u>. DOE/NV--555, Las Vegas, NV.
- U.S. Environmental Protection Agency, 1996, <u>Test Methods for Evaluating Solid Waste</u>, <u>Physical/Chemical Methods</u>, EPA Publication SW-846, Third Edition.



APPENDIX A

PHOTOGRAPHS OF CLOSURE ACTIVITY WORK AREAS

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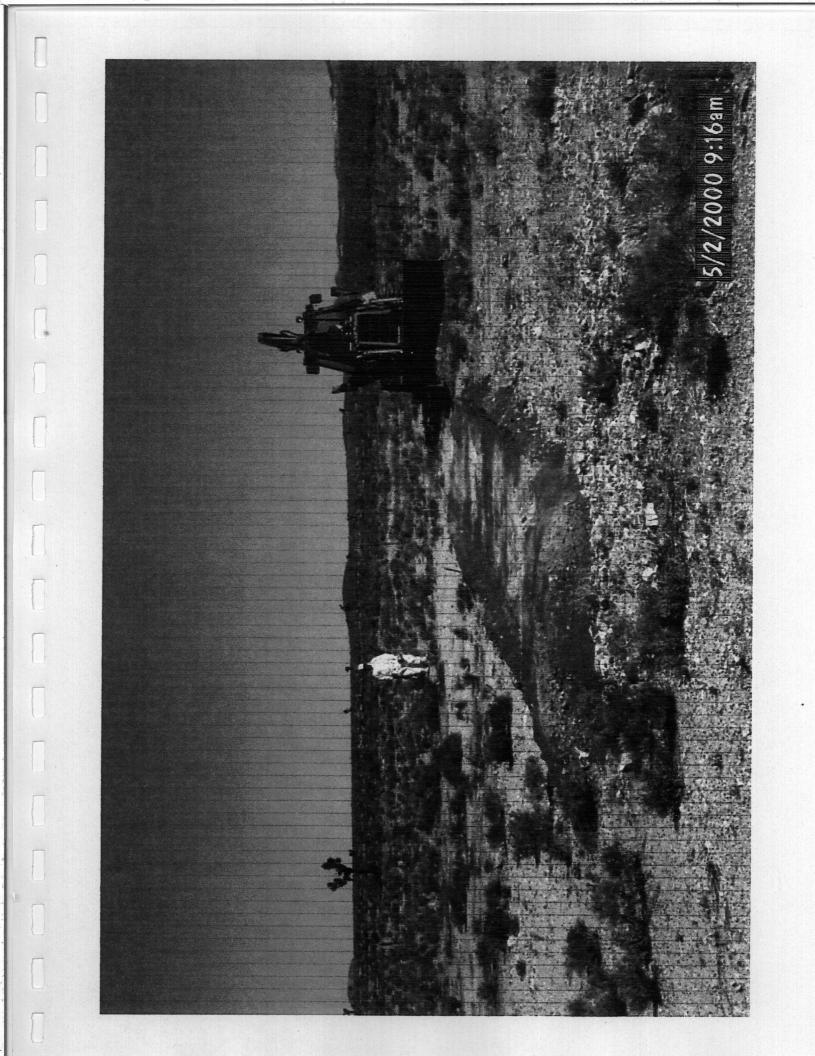
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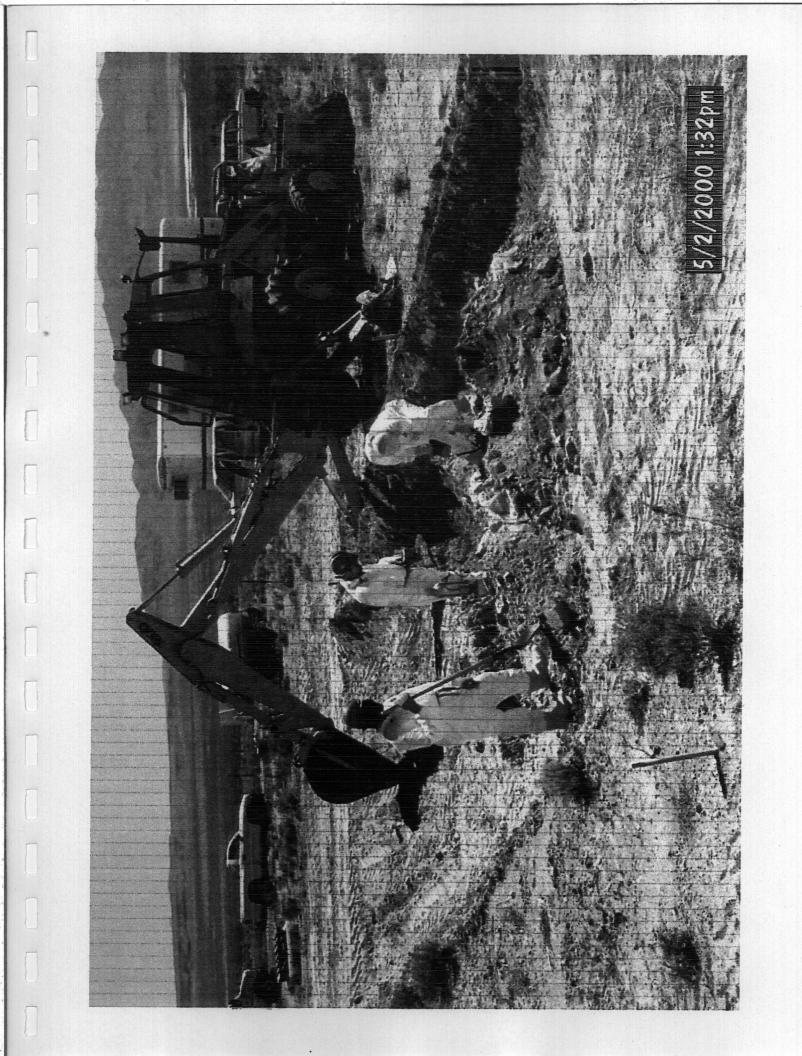
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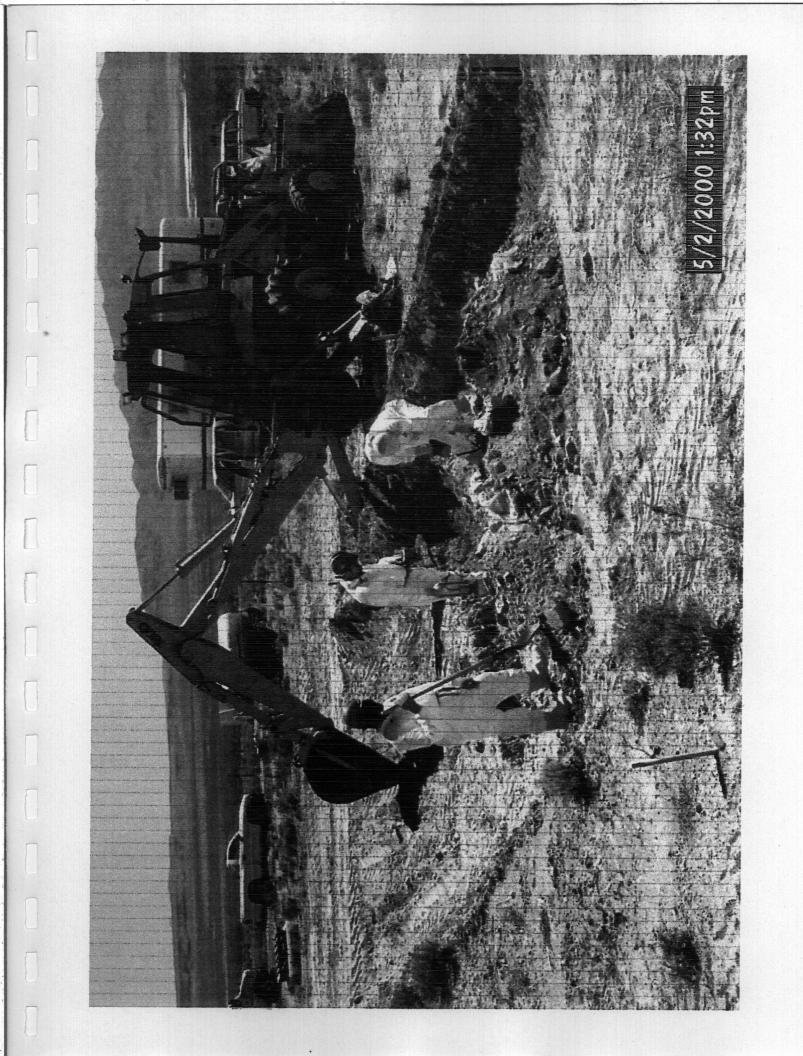
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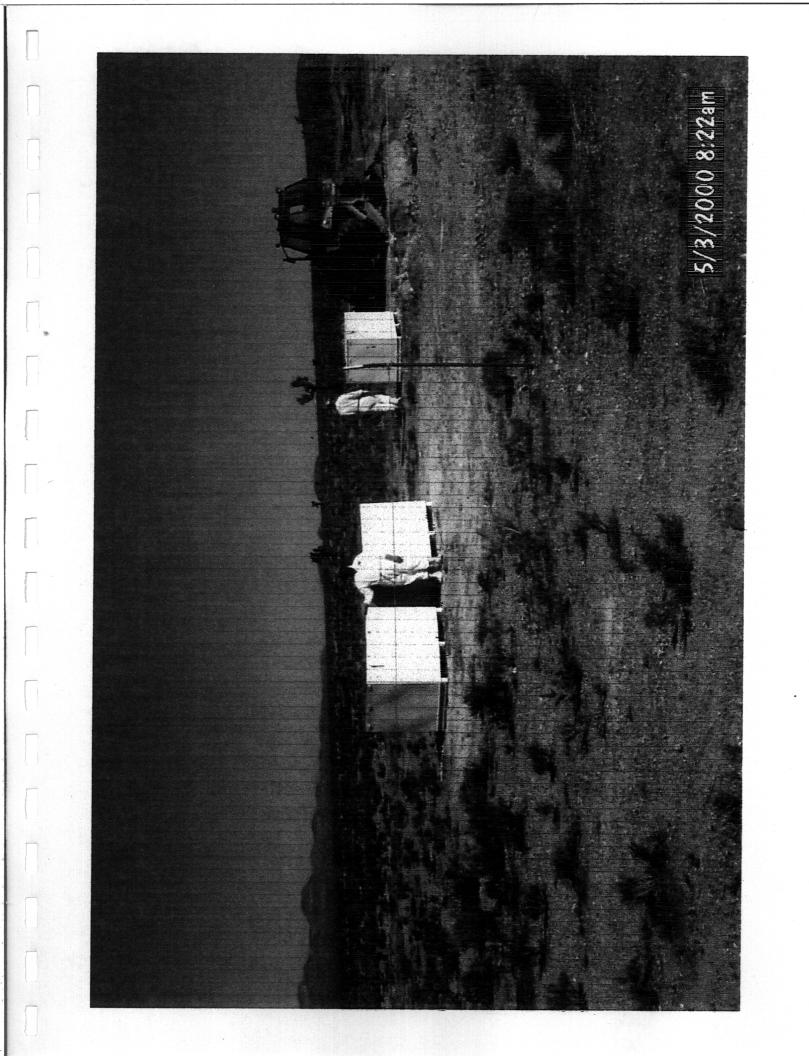
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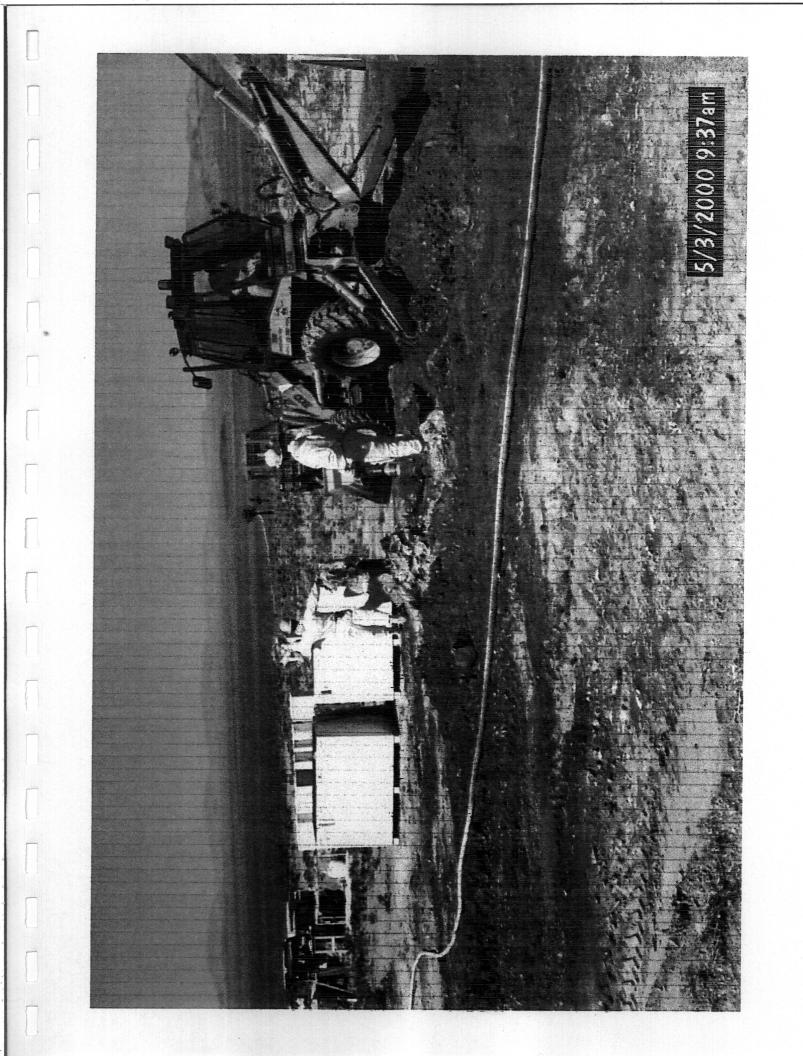
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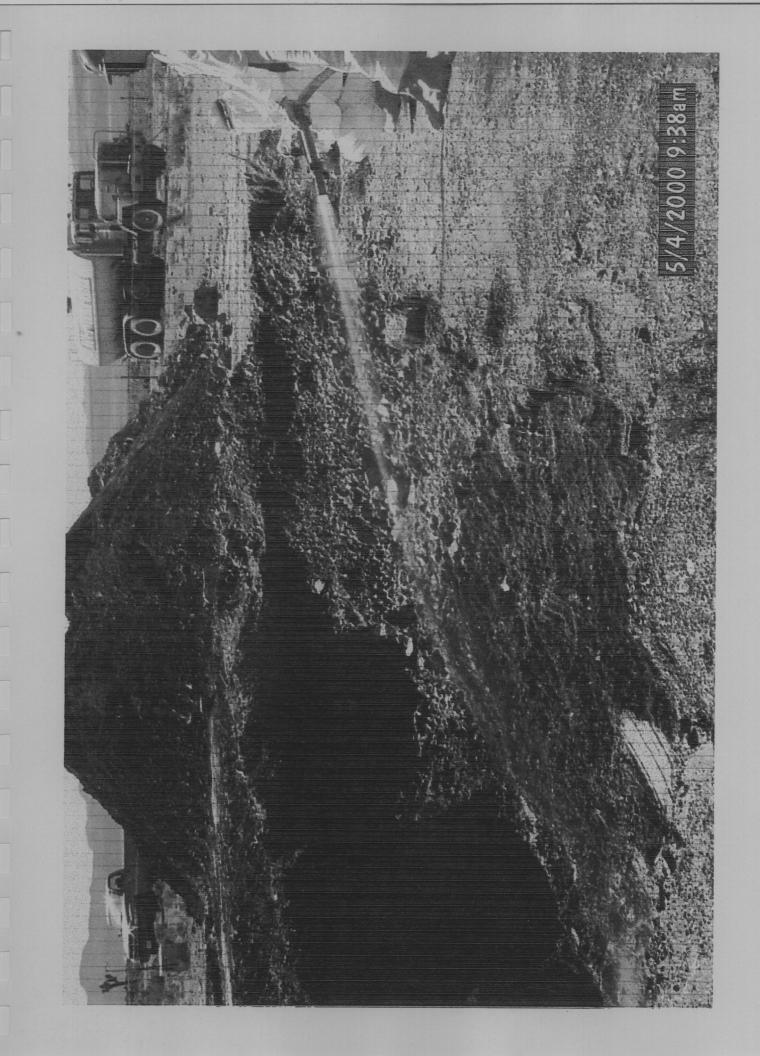


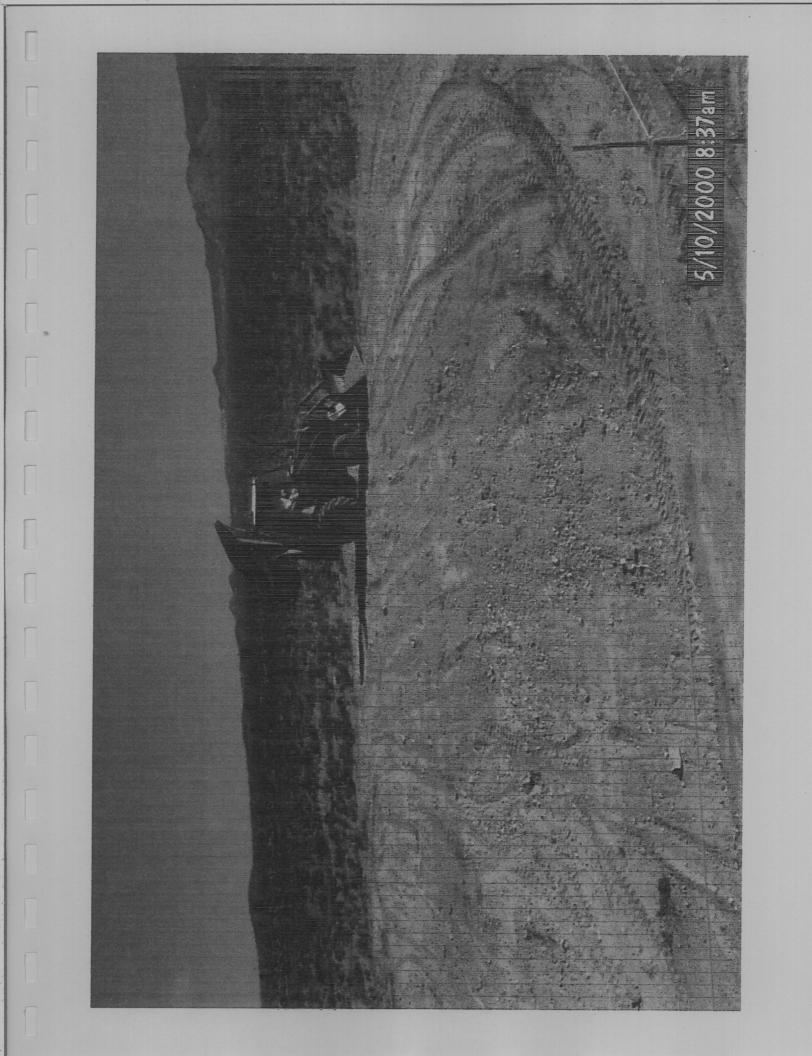


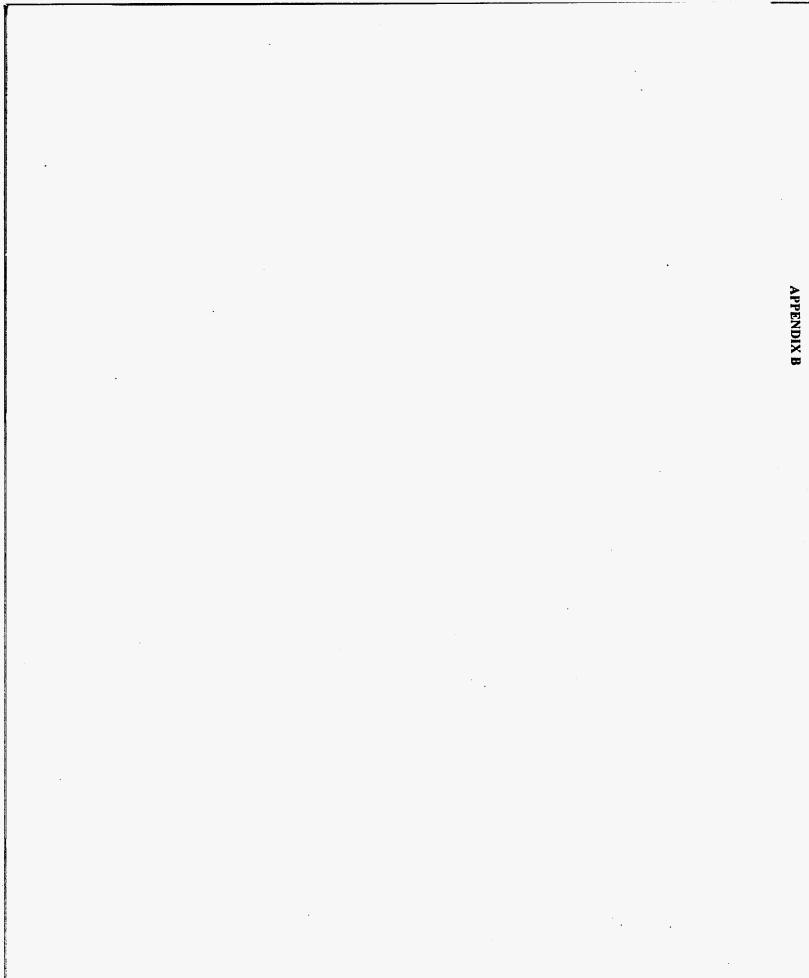












APPENDIX B

WASTE DISPOSITION DOCUMENTATION

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CERCTIFICATE OF DISPOSAL

This is to certify that the Double Tracks (CAU 486) Waste Stream Number LRY5-LLFY00006, MEF Number F00006, with package numbers 982810, 982774, 982817, and 982803 were shipped and received at the Nevada Test Site Radioactive Waste Management Site in Area 5 for disposal as stated below.

Shipped by:

William C. Nicosia Print Name

Bechtel Nevada Waste Control Organization

<u>Scientist</u> Title

Date

<u>()il</u> (<u>Mco</u>-Signature

Received by: ren E. I liams

Signature

Organization

<u>Scientrs</u> Title

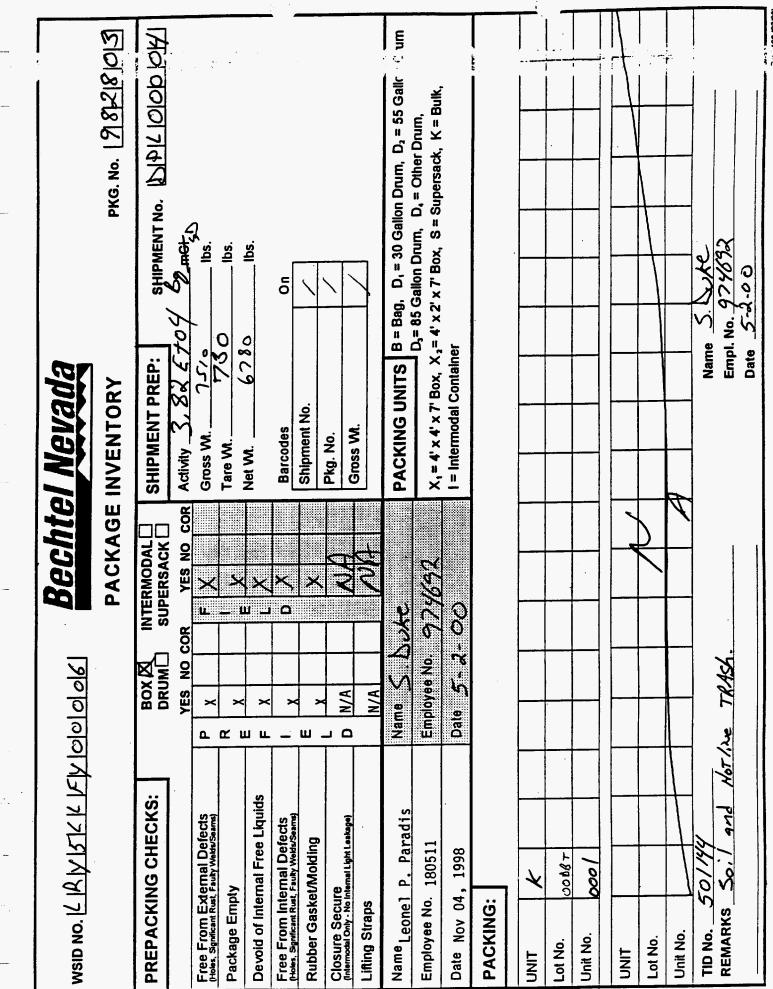
5.10-00

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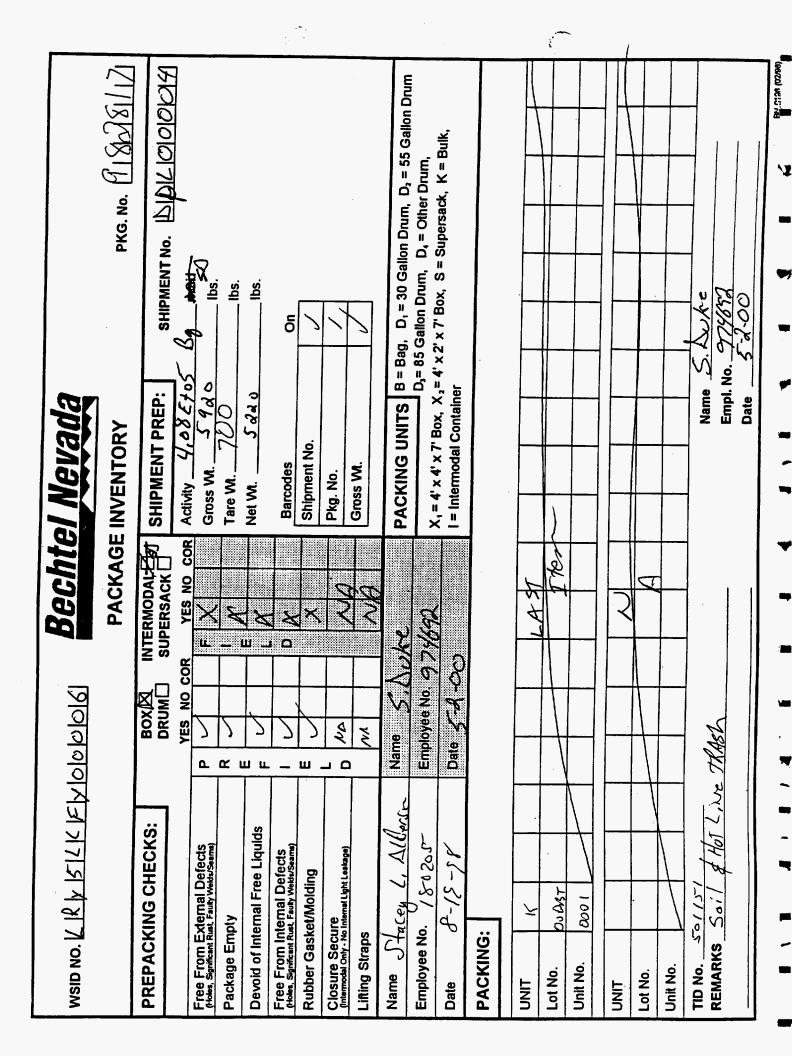
	Cht6 000/	Bechtel Nevada Pit Unit No. Name & Emp. No. 2 000/ 974/69 2 000/ 974/69 2	UNIT I Date Date	WSID NO. LAIVIST LIFY LOLO LOGI UNIT INVENTORY LIST MEF NO. LECOLO LOGI Date UNIT INVENTORY LIST Date UNIT INVENTORY LIST Date UNIT INVENTORY LIST Date UNIT INVENTORY LIST Date UNIT Date UNIT Basenption Cols 1 & Ibiti.ne TRASL Cols 1 Gal 1 & Ibiti.ne TRASL Cols 1 Cols 1

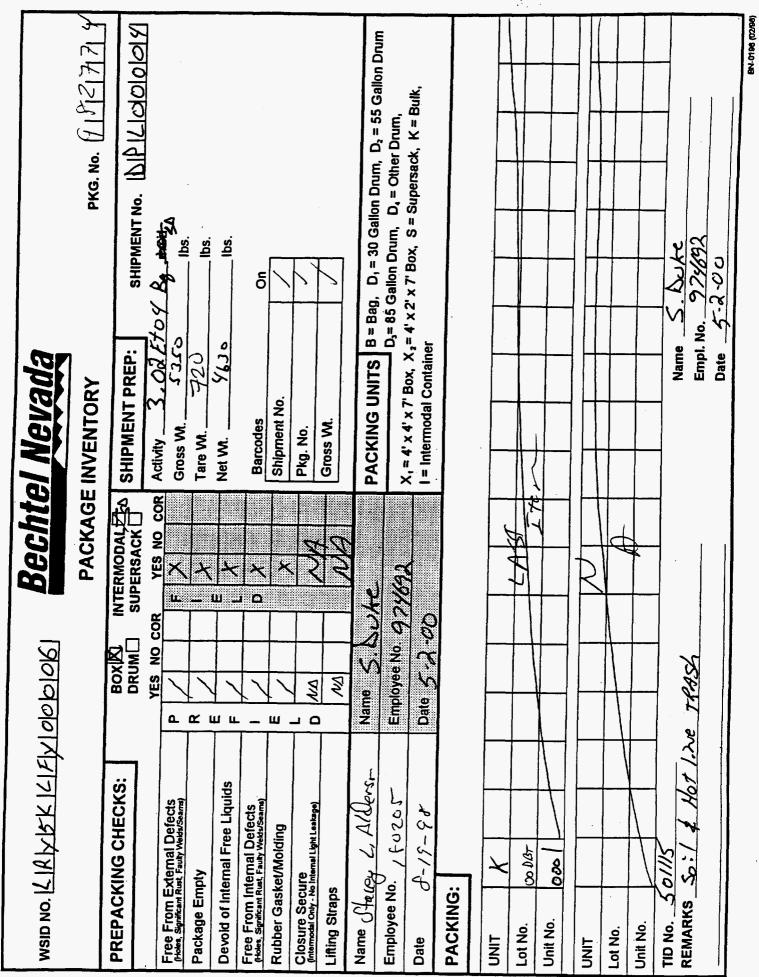
2 이이히 Bechtel Nevada Package Inventory PKG. No. 연가 2011회		Tes, NO CORTes, NO CORAGIVITyS. 25×10 / 25 Add and and and and and and and and and a	D X Barcodes On Z Shipment No. Pkg. No. D MA Pkg. No. Aut Gross M.	Name (A, A, C) PACKING UNITSB = Bag.D, = 30 Gallon Drum.D, = 55 Gallon DrumName (A, A, C) (A, C)	Val t		
2010 NO. 12 12 12 12 12 12 10 NOIN	PREPACKING CHECKS:	Free From External Defects (Holes, Sgnifcent Rust, Faulty Wetds/Seams) Package Empty Devoid of Internal Free Liquids	Free From Internal Defects (Holes, Significant Rust, Faulty Wetts/Seams) Rubber Gasket/Molding Closure Secure (Intermodal Only - No Internal Light Lealage) 1 fifting Strans	Name Officery (DIDe-Sn Employee No. 120205 Date P-15-55	PACKING: UNIT K Lot No. 00.001 Unit No. 000	UNIT Lot No. Unit No. 50/9/A TID No. 50/9/A REMARKS So! / \$ Hot Ave TRASA	

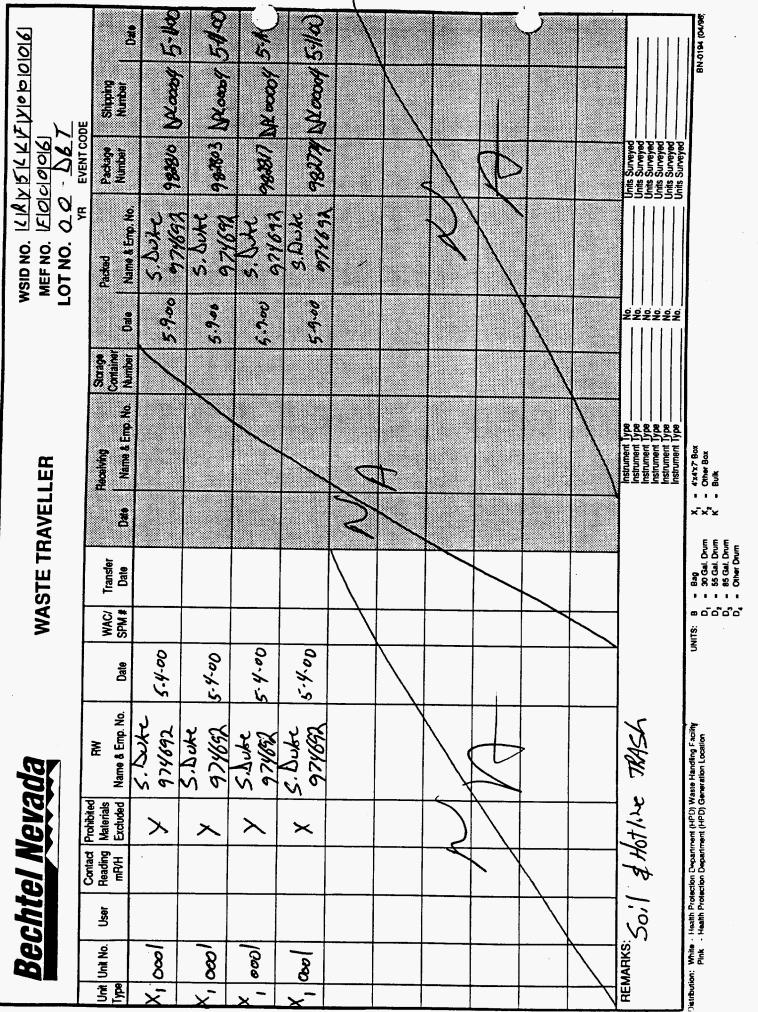
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34.196 (02/96)







Package Storage and Disposal Request

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Shipment	NUMBER	er: DPL00004				Prepared By:				
	Dat	e: 10-May-00				Aanifest Num	ber:	. <u> </u>		
Package No	:	982774	Contact (mSv/h):	0	Completed D)ate:	10-May	-00	
Container C	ode:	210	1 Meter (r	mSv/h):	0	Operation Ty	pe:	8		
External Vol	ume (m^	3): 2.260E+00	Gross W	eight (kg):	2.427E+03	Total Activity	(bq):	3.019E+	-04	
Waste Volu	ne (m^3): 2.034E+00	Net Weig	ht (kg):	2.100E+03	Activity Date:	:	09-May	-00	
Comme	nt:									
Waste Stream /Profile	Form Code	Form Description		Treatment Code	Treatm Descrip		Rev. No.	Revision Date	Nuclide	Qty (Bq)
LRY5LLFY00006	045	SOIL AND HOTLINE	TRASH	100	·····		00	19-Apr-00	AM-241	1.560E+03
LRYSLLFY00006	045	SOIL AND HOTLINE		100			00	19-Apr-00	PU-241	8.050E+03
LRYSLLFY00006	045	SOIL AND HOTLINE		100			00	19-Apr-00	PU-240	1.780E+03
LRY5LLFY00006	045	SOIL AND HOTLINE	TRASH	100			00	19-Apr-00	PU-239	1.880E+04
Package No	:	982803	Contact (mSv/h):	0	Completed D)ate:	10-May	-00	
					0	Operation Ty	me:	В		
Container C	ode:	210	1 Meter (I	msv/n):	•			-		
-			•	msv/n): eight (kg):	3.406E+03	Total Activity	•	3.824E+	-04	
Container C	ume (m² me (m²3	3): 2.260E+00	•	eight (kg):	•	•	(bq):		•••	
Container C External Vol Waste Volu	ume (m² me (m²3	3): 2.260E+00	Gross Weig	eight (kg):	3.408E+03	Total Activity Activity Date:	(bq):	3.824E+	•••	Qty (Bq)
Container C External Volu Waste Volu Comme Waste Stream /Profile	ume (m² me (m²3 nt: Form	3): 2.260E+00): 2.034E+00 Form	Gross Weig	eight (kg): ht (kg): Treatment	3.408E+03 3.075E+03 Treatm	Total Activity Activity Date:	(bq): : Rev.	3.824E- 09-May Revision	-00	
Container C External Volu Waste Volu Comme Waste Stream /Profile	ume (m ⁴ me (m ⁴ 3 nt: Form Code	3): 2.260E+00): 2.034E+00 Form Description	Gross Weig	eight (kg): ht (kg): Treatment Code	3.408E+03 3.075E+03 Treatm	Total Activity Activity Date:	(bq): : Rev. No.	3.824E+ 09-May Revision Date	-00 Nuclide	(Bq)
Container C External Vol Waste Volu Comme Waste Stream	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE	Gross Weig Net Weig TRASH	eight (kg): ht (kg): Treatment Code	3.408E+03 3.075E+03 Treatm	Total Activity Activity Date:	(bq): : Rev. No.	3.824E+ 09-May Revision Date 19-Apr-00	-00 Nuclide	(Bq) 1.980E+03
Container C External Vol Waste Volu Comme Waste Stream /Profile LRY5LLFY00006	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045 045 045	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE	Gross Weight Net Weight TRASH	eight (kg): ht (kg): Treatment Code 100 100	3.408E+03 3.075E+03 Treatm	Total Activity Activity Date:	(bq): Rev. No. 90 90	3.824E- 09-May Revision Date 19-Apr-00 19-Apr-00	-00 Nuclide AM-241 PU-241	(Bq) 1.980E+03 1.020E+04
Container C External Vol Waste Volu Comme Waste Stream /Profile LRY5LLFY00006 LRY5LLFY00006	ume (m ⁴ me (m ⁴ 3 mt: Form Code 045 045 045 046	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE	Gross Weight Net Weight TRASH	eight (kg): ht (kg): Treatment Code 100 100 100	3.408E+03 3.075E+03 Treatm	Total Activity Activity Date:	(bq): Rev. No. 90 90 90 90 90	3.824E- 09-May Revision Date 19-Apr-00 19-Apr-00 19-Apr-00	00 Nuclide AM-241 PU-241 PU-240 PU-239	(Bq) 1.980E+03 1.020E+04 2.260E+03
Container C External Vol Waste Volu Comme Waste Stream /Profile LRY5LLFY00006 LRY5LLFY00006 LRY5LLFY00006	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045 045 045	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE	Gross Weight Net Weight TRASH TRASH TRASH TRASH TRASH	eight (kg): ht (kg): Treatment Code 100 100 100 100 mSv/h):	3.408E+03 3.075E+03 Treatm Descrip	Total Activity Activity Date: nent stion	(bq): : No. 90 90 90 90 90 90 90	3.824E- 09-May Revision Date 19-Apr-00 19-Apr-00 19-Apr-00	00 Nuclide AM-241 PU-241 PU-240 PU-239	(Bq) 1.980E+03 1.020E+04 2.260E+03
Container C External Vol Waste Volu Comme Waste Stream /Profile LRY5LLFY00006 LRY5LLFY00006 LRY5LLFY00006 Package No	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045 045 046 046	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE	Gross Wi Net Weig TRASH TRASH TRASH TRASH TRASH Contact (i 1 Meter (i	eight (kg): ht (kg): Treatment Code 100 100 100 100 mSv/h):	3.408E+03 3.075E+03 Treatm Descrip	Total Activity Activity Date: nent bion	(bq): : No. 00 00 00 00 00 00 00 00 00 00 00 00 00	3.824E- 09-May Revision Date 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00	-00 Nuclide AM-241 PU-241 PU-240 PU-239	(Bq) 1.980E+03 1.020E+04 2.260E+03
Container C External Vol Waste Volu Comme Waste Stream /Profile LRY5LLFY00006 LRY5LLFY00006 LRY5LLFY00006 Package No Container Ce External Volu	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045 045 045 045 045 046 046 046 046 046 046 046 046 046 046	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE 382810 210 3): 2.260E+00	Gross Wi Net Weig TRASH TRASH TRASH TRASH TRASH Contact (i 1 Meter (i	eight (kg): ht (kg): Treatment Code 100 100 100 100 100 100 100 10	3.408E+03 3.075E+03 Treatm Descrip	Total Activity Activity Date: nent stion	(bq): Rev. No. 90 90 90 90 90 90 90 90 90 90 90 90 90	3.824E- 09-May Revision Date 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00	-00 Nuclide AM-241 PU-241 PU-240 PU-239 -00	(Bq) 1.980E+03 1.020E+04 2.260E+03
Container C External Vol Waste Volu Comme Waste Stream /Profile LRY5LLFY00006 LRY5LLFY00006 LRY5LLFY00006 Package No Container Co	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045 045 045 045 045 045 045 045 045 045	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE 382810 210 3): 2.260E+00): 2.034E+00	Gross Wi Net Weig TRASH TRASH TRASH TRASH TRASH Contact (i 1 Meter (i Gross Wi	eight (kg): ht (kg): Treatment Code 100 100 100 100 100 100 100 10	3.408E+03 3.075E+03 Treatm Descrip 0 0 3.590E+03	Total Activity Activity Date: nent btion	(bq): Rev. No. 90 90 90 90 90 90 90 90 90 90 90 90 90	3.824E- 09-May Revision Date 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00	-00 Nuclide AM-241 PU-241 PU-240 PU-239 -00	(Bq) 1.980E+03 1.020E+04 2.260E+03 2.380E+04
Container C External Vol Waste Volu Comme Waste Stream /Profile LRY5LLFY00006 LRY5LLFY00006 LRY5LLFY00006 Package No Container Ce External Volu	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045 045 045 045 045 046 046 046 046 046 046 046 046 046 046	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE 382810 210 3): 2.260E+00	Gross Wi Net Weig TRASH TRASH TRASH TRASH TRASH TRASH TRASH Contact (i 1 Meter (i Gross Wi Net Weig	eight (kg): ht (kg): Treatment Code 100 100 100 100 100 100 100 10	3.408E+03 3.075E+03 Treatm Descrip 0 0 3.590E+03	Total Activity Activity Date: nent bion Completed D Operation Ty Total Activity Activity Date:	(bq): Rev. No. 90 90 90 90 90 90 90 90 90 90 90 90 90	3.824E- 09-May Revision Date 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00	-00 Nuclide AM-241 PU-241 PU-240 PU-239 -00	(Bq) 1.980E+03 1.020E+04 2.260E+03
Container C External Vol Waste Volu Commer Waste Stream /Profile LRY5LLFY00006 LRY5LLFY00006 LRY5LLFY00006 Package No Container C External Volu Waste Volur Commer	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045 045 045 045 045 045 045 045 045 045	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE 3012 210 3): 2.260E+00): 2.034E+00 Form	Gross Wi Net Weig TRASH TRASH TRASH TRASH Contact (i 1 Meter (i Gross Wi Net Weig	eight (kg): ht (kg): Treatment Code 100 100 100 100 100 100 100 10	3.408E+03 3.075E+03 Treatm Descrip 0 0 3.590E+03 3.261E+03 Treatm	Total Activity Activity Date: nent bion Completed D Operation Ty Total Activity Activity Date:	(bq): Rev. No. 90 90 90 90 90 90 90 90 90 90 90 90 90	3.824E- 09-May Revision Date 19-Apr-00	-00 Nuciide AM-241 PU-241 PU-240 PU-239 -00 -00	(Bq) 1.980E+03 1.020E+04 2.260E+03 2.380E+04 2.380E+04 Qty (Bq)
Container C External Volu Waste Volus Comme Waste Stream /Profile LRY5LLFY00006 LRY5LLFY00006 Package No Container C External Volu Waste Volus Commer Waste Stream /Profile	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045 045 046 046 046 046 046 046 046 046 046 046	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE 31: 2.260E+00): 2.034E+00 Form Description	Gross Wi Net Weig TRASH TRASH TRASH Contact (i 1 Meter (i Gross Wi Net Weig	eight (kg): ht (kg): Treatment Code 100 100 100 100 mSv/h): mSv/h): eight (kg): ht (kg):	3.408E+03 3.075E+03 Treatm Descrip 0 0 3.590E+03 3.261E+03 Treatm	Total Activity Activity Date: nent bion Completed D Operation Ty Total Activity Activity Date:	(bq): Rev. No. 90 90 90 90 90 90 90 90 90 90	3.824E- 09-May Revision Date 19-Apr-00 19-Apr-	-00 Nuclide AM-241 PU-241 PU-240 PU-239 -00 -00 Nuclide	(Bq) 1.980E+03 1.020E+04 2.260E+03 2.380E+04 2.380E+04 Qty (Bq) 1.730E+06
Container C External Volu Waste Volu Comme Waste Stream /Profile LRY5LLFY00006 LRY5LLFY00006 LRY5LLFY00006 Package No Container C External Volu Waste Volur Commer	ume (m ⁴ me (m ⁴ 3 nt: Form Code 045 045 046 046 046 046 046 046 046 046 046 046	3): 2.260E+00): 2.034E+00 Form Description SOIL AND HOTLINE SOIL AND HOTLINE SOIL AND HOTLINE 882810 210 3): 2.260E+00): 2.034E+00 Form Description	Gross Wi Net Weig TRASH TRASH TRASH Contact (i 1 Meter (i Gross Wi Net Weig	eight (kg): ht (kg): Trestment Code 100 100 100 100 100 100 100 10	3.408E+03 3.075E+03 Treatm Descrip 0 0 3.590E+03 3.261E+03 Treatm	Total Activity Activity Date: nent bion Completed D Operation Ty Total Activity Activity Date:	(bq): Rev. No. 90 90 90 90 90 90 90 1 Rev. No. 1 8 8 8 90 90 90 90 90 90 90 90 90 90	3.824E- 09-May Revision Date 19-Apr-00 19-Apr-00 19-Apr-00 19-Apr-00 10-May B 3.343E- 09-May Revision Date 19-Apr-00	-00 Nuclide AM-241 PU-240 PU-240 PU-239 -00 -07 -00 Nuclide AM-241	(Bq) 1.980E+03 1.020E+04 2.260E+03 2.380E+04

Package Storage and Disposal Request

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Shipment N		er: DPL00004 e: 10-May-00				Prepared E Manifest N		U.e.	C Ne	CA-
Package No: Container Co External Volu Waste Volum Commeni	me (m^ ie (m^3)	962817 210 3): 2.260E+00 : 2.034E+00	Contact (1 Meter (Gross W Net Weig	mSv/h): eight (kg):	0 0 2. 585 E+03 2.3 68 E+03	Complete Operatio Total Act Activity E	n T ype: iivity (bq):	10-May B 4.082E- 09-May	-05	
Waste Stream /Profile	Form Code	Form Descriptic	n	Treatment Code	Treatm Descrip		Rev. No.	Revision Date	Nuclide	Qty (Bq)
LRY5LLFY00006	045	SOIL ANI) HOTLINE	TRASH	100			00	19-Apr-00	AM-241	2.110E+04
LRY5LLFY00006	045	SOIL AND HOTLINE	TRASH	100			00	19-Apr-00	PU-241	1.090E+05
LRY5LLFY00006	045	SOIL AND HOTLINE	TRASH	100			00	19-Apr-00	PU-240	2.410E+04
LRY6LLFY00006	045	SOIL AND HOTLINE	TRASH	100			00	19-Apr-00	PU-239	2.540E+05

APPENDIX C

APPENDIX C

VERIFICATION SAMPLE ANALYTICAL REPORTS

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P.O.Box 3936, N. Las Vegas, NV 89036 ANALYTICAL SERVICES LABORATORY

,NV,89193-8521 Reported to: Env. Restoration - Ind. Sites P.O. Box 98521 **M/S NTS306** Las Vegas

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 15-NOV-00 Sample Delivery Group: D321 Batch: N772 Program: 720

Page 1

Report No

						410	A - dimin	Camala	Cita	Cita	Cire Traner	Snike	Svstem	Packet-Item
Sample	Isotope	Result	Error	Cual Flag	DOM	Vinits Date		coll Date		Units		Recv %	Yield % Recv % Detector	Sample
CAU4860001	K 40	2.74E+01	5.0E + 00		1.4E+00	pCi/g	05-18-00	05-08-00 7.25E + 02	7.25E + 02	ШŐ			05-01	H2977-0-75468
CAU4860001	RA226	3.64E + 00	1.9E + 00		1.1E+00	pCi/g	05-18-00	05-08-00 7.25E + 02	7.25E + 02	шő			05-01	H2977-0-75468
CAU4860001	RA226	2.34E + 00	5.6E-01		2.8E-01	pCi/g	05-18-00	05-08-00 7.25E + 02	7.25E + 02	шĝ			05-01	H2977-0-75468
CAU4860001	TH228	2.31E+00	4.1E-01		1.4E-01	pCi/g	05-18-00	05-08-00 7.25E + 02	7.25E+02	шß			05-01	H2977-0-75468
CAU4860001	TH232	2.00E+00	7.8E-01		4.9E-01	pCi/g	05-18-00	05-08-00 7.25E + 02	7.25E + 02	ШĜ			05-01	H2977-0-75468
CAU4860001	AM241	0.00E + 00	0.0E + 00	þ	7.1E-01	pCi/g	05-18-00	05-08-00 7.25E + 02	7.25E + 02	ШB			05-01	H2977-0-75468
CAU4860001	CS137	0.00E + 00	0.0E + 00	n	7.3E-02	pCi/g	05-18-00	05-08-00 7.25E + 02	7.25E + 02	шő			05-01	H2977-0-75468
CAU4860002	K 40	2.87E+01	5.2E + 00		1.4E+00	pCi/g	05-18-00	05-08-00 7.46E + 02	7.46E + 02	шß			05-01	H2977-1-75471
CAU4860002	RA226	1.49E+00	3.6E-01		1.6E-01	pCi/g	05-18-00	05-18-00 05-08-00 7.46E+02	7.46E + 02	шß			05-01	05-01 H2977-1-75471
CAU4860002	TH228	2.09E + 00	3.9E-01		1.4E-01	pCi/g	05-18-00	05-18-00 05-08-00 7.46E + 02	7.46E + 02	ш			05-01	H2977-1-75471

Comment:

CAU 486 samples. This report is Data generated from analyses of follow up to original submitted.

Prepared by:

Date: // ////////////////

Qualification Flags:

Note: Error is the Prep + 2.0 Sigma Error

E = Estimated Quantity

H = High Recovery for Sample

f = Result is less than the RDL

- = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

20 = Result is less than Minimum Detectable Activity

Date;/

Approved by:

(COA)

P.O.Box 3936, N. Las Vegas, NV 89036 ANALYTICAL SERVICES LABORATORY

Reported to: Env. Restoration - Ind. Sites P.O. Box 98521 **M/S NTS306**

,NV,89193-8521

Las Vegas

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 15-NOV-00 Sample Delivery Group: D321 Batch: N772

Page 2

Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Result Analysis Units Date	Sample Coll Date	Size	Size Units	Size Tracer Spike System Units Yield % Recv % Detector	Spike System Recv % Detecto	System Detector	Packet-Item Sample
CAU4860002	TH232	2.02E+00	7.8E-01		4.9E-01	pCi/g	05-18-00	05-08-00	05-08-00 7.46E + 02	Ĕ			05-01	H2977-1-75471
CAU4860002	TH232	1.63E + 00	5.8E-01		3.3E-01	pCi/g	05-18-00	05-08-00 7.46E + 02	7.46E + 02	Шß			05-01	H2977-1-75471
CAU4860002	AM241	0.00E + 00	0.0E + 00	∍	6.5E-01.	pCi/g	05-18-00	05-08-00 7.46E + 02	7.46E + 02	E			05-01	H2977-1-75471
CAU4860002	CS137	0.00E + 00	0.0E + 00	þ	7.2E-02	pCi/g	05-18-00 05-08-00 7.46E + 02	05-08-00	7.46E + 02	Ë			05-01	H2977-1-75471
CAU4860003	K 40	2.62E+01	4.9E + 00		1.1E+00	pCi/g	05-18-00	05-08-00 7.17E + 02	7.17E+02	Ē			05-01	05-01 H2977-2-75472
CAU4860003	RA226	1.25E + 00	3.3E-01		1.9E-01	pCi/g	05-18-00	05-08-00 7.17E + 02	7.17E + 02	E			05-01	05-01 H2977-2-75472
CAU4860003	TH228	2.10E+00	3.9E-01	• •	1.4E-01	pCi/g	05-18-00	05-08-00 7.17E + 02	7.17E+02	Ē			05-01	H2977-2-75472
CAU4860003	TH232	1.88E + 00	7.3E-01		4.9E-01	pCi/g	05-18-00	02-08-00	05-08-00 7.17E + 02	E			05-01	05-01 H2977-2-75472
CAU4860003	AM241	0.00E + 00 0.0E + 00		Э	6.6E-01	pCi/g	05-18-00 05-08-00 7.17E + 02	02-08-00	7.17E + 02	Ë			05-01	05-01 H2977-2-75472
CAU4860003	CS137	0.00E + 00 0.0E + 00		>	7.3E-02	pCi/g	05-18-00	05-18-00 05-08-00 7.17E + 02	7.17E + 02	Ē			05-01	05-01 H2977-2-75472

Comment:

Data generated from analyses of CAU 486 samples. This report is follow up to original submitted.

Prepared by:

Approved by:

Qualification Flags:

Note: Error is the Prep + 2.0 Sigma Error

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

- = Low Recovery for Sample

P = Preliminary Results

Date: 1///S//07

Q = Bad Instrument Quality Control, Result is OK

Date://-/5-00U = Result is less than Minimum Detectable Activity

(COA)

R = Results are Unusable, Resampling is Necessary

P.O.Box 3936, N. Las Vegas, NV 89036 ANALYTICAL SERVICES LABORATORY

,NV,89193-8521 Reported to: Env. Restoration - Ind. Sites P.O. Box 98521 M/S NTS306 Las Vegas

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 15-NOV-00 Batch: N772 Sample Delivery Group: D321 Program: 720

Report No.

Sample	Isotope	Result	Error	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Spike Recv %	Tracer Spike System Yield % Recv % Detector	Packet-Item Sample
CAU4860004	K 40	2.55E + 01	4.8E + 00		1.4E+00	pCi/g	05-18-00	05-18-00 05-08-00 7.53E+02	7.53E + 02	шô		05-01	H2977-3-75473
CAU4860004	RA226	1.61E + 00	3.7E-01		1.9E-01	pCi/g	05-18-00	05-18-00 05-08-00 7.53E+02	7.53E+02	ш б		05-01	H2977-3-75473
CAU4860004	TH228	2.25E + 00	4.0E-01		1.4E-01	pCi/g	05-18-00	05-08-00 7.53E + 02	7.53E + 02	Ĕ		05-01	H2977-3-75473
CAU4860004	TH232	2.49E + 00	7.3E-01		3.2E-01	pCi/g	05-18-00	05-08-00 7.53E + 02	7.53E+02	ШĞ		05-01	05-01 H2977-3-75473
CAU4860004	AM241	0.00E+00	0.0E + 00	2	6.8E-01	pCi/g	05-18-00	05-18-00 05-08-00 7.53E + 02	7.53E + 02	шô		05-01	H2977-3-75473
CAU4860004	CS137	0.00E+00	0.0E+00	Þ	7.2E-02	pCi/g	05-18-00	05-18-00 05-08-00 7.53E+02	7.53E + 02	mß		05-01	H2977-3-75473
CAU4860005	K 40	2.55E+01	4.8E+00		1.4E + 00	pCi/g	05-18-00	05-08-00 8.05E + 02	8.05E + 02	E		05-01	H2977-4-75474
CAU4860005	RA226	1.59E+00	3.7E-01		1.4E-01	pCi/g	05-18-00	05-08-00 8.05E + 02	8.05E + 02	Eß		05-01	H2977-4-75474
CAU4860005	TH228	1.80E + 00	3.6E-01		1.4E-01	pCi/g	05-18-00		05-08-00 8.05E + 02 gm	E,		05-01	H2977-4-75474
CAU4860005	TH232	1.68E+00	7.5E-01		4.9E-01	pCi/g	05-18-00	05-08-00 8.05E + 02	8.05E + 02	шß		05-01	H2977-4-75474

Comment:

CAU 486 samples. This report is Data generated from analyses of follow up to original submitted.

Note: Error is the Prep + 2.0 Sigma Error

E = Estimated Quantity

Qualification Flags:

- H = High Recovery for Sample

 - J = Result is less than the RDL
 - = Low Recovery for Sample
 - P = Preliminary Results

Date: ∠

Date://

Approved by: U.M. C.

Prepared by:

- Q = Bad Instrument Quality Control, Result is OK
- R = Results are Unusable, Resampling is Necessary
- -OO'U = Result is less than Minimum Detectable Activity

(COA)

Page 3

P.O.Box 3936, N. Las Vegas, NV 89036 ANALYTICAL SERVICES LABORATORY

,NV,89193-8521 Reported to: Env. Restoration - Ind. Sites P.O. Box 98521 M/S NTS306 Las Vegas

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 15-NOV-00 Sample Delivery Group: D321 Batch: N772 Program: 720

Page 4

Report No. :

Sample ***** Identification *****	Isotope	Result	Error	Qual Flag	MDC	Result Units	Result Analysis Units Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Tracer Spike System Yield % Recv % Detector	System Detector	Packet-Item Sample
CAU4860005	AM241	0.00E + 00	0.0E + 00	>	6.8E-01	pCi/g	05-18-00	05-18-00 05-08-00 8.05E+02	8.05E + 02	E,			05-01	H2977-4-75474
CAU4860005	CS137	0.00E + 00 0.0E + 00	0.0E + 00	>	7.2E-02	pCi/g	05-18-00	05-18-00 05-08-00 8.05E+02	8.05E + 02	Ľ			05-01	H2977-4-75474
CAU4860006	K 40	2.53E+01	4.7E+00	<u> </u>	1.4E+00	pCi/g	05-18-00	05-18-00 05-08-00 7.73E + 02	7.73E+02	Еß			05-01	H2977-5-75481
CAU4860006	RA226	3.64E + 00 1.9E + 00	1.9E+00	<u>.</u>	1.1E+00	pCi/g	05-18-00	05-18-00 05-08-00 7.73E+02	7.73E + 02	Ë			05-01	H2977-5-75481
CAU4860006	RA226	1.57E+00	3.8E-01		1.4E-01	pCi/g	05-18-00	05-18-00 05-08-00 7.73E + 02	7.73E+02	E			05-01	H2977-5-75481
CAU4860006	TH228	2.15E+00 4.0E-01	4.0E-01		1.4E-01	pCi/g	05-18-00	05-18-00 05-08-00 7.73E+02	7.73E+02	ш			05-01	H2977-5-75481
CAU4860006	TH232	1.77E+00 6.1E-01	6.1E-01		3.2E-01	pCi/g	05-18-00	05-18-00 05-08-00 7.73E + 02	7.73E + 02	ЦĜ			05-01	H2977-5-75481
CAU4860006	AM241	0.00E + 00 0.0E + 00	0.0E + 00	>	7.1E-01	pCi/g	05-18-00	05-18-00 05-08-00 7.73E+02	7.73E+02	Ĕ			05-01	H2977-5-75481
CAU4860006	CS137	0.00E + 00 0.0E + 00	0.0E + 00	>	7.2E-02	pCi/g	05-18-00	05-18-00 05-08-00 7.73E+02	7.73E + 02	Eß			05-01	H2977-5-75481
CAU4860007	K 40	2.60E+01 4.8E+00	4.8E + 00		1.4E + 00	pCi/g	05-18-00	05-18-00 05-08-00 8.03E+02	8.03E + 02	шß			05-01	H2977-6-75482

Comment:

CAU 486 samples. This report is Data generated from analyses of follow up to original submitted.

Prepared by:

Date: // //// /07 4 4

Date://

Approved by: ///

= Result is less than the RDL L = Low Recovery for Sample

H = High Recovery for Sample

E = Estimated Quantity

Qualification Flags:

Note: Error is the Prep + 2.0 Sigma Error

- P = Preliminary Results

- Results are Unusable, Resampling is Necessary

(COA)

- П

- 7-00 U = Result is less than Minimum Detectable Activity

Q = Bad Instrument Quality Control, Result is OK

P.O.Box 3936, N. Las Vegas, NV 89036 ANALYTICAL SERVICES LABORATORY

,NV,89193-8521 Reported to: Env. Restoration - Ind. Sites P.O. Box 98521 **M/S NTS306** Las Vegas

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 15-NOV-00 Batch: N772 Sample Delivery Group: D321 Program: 720

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Report No.

and the second														
Sample	Isotope	Result	Error	Qual Flag	MDC	Result Units	Result Analysis Units Date	Sample Coli Date	Size	Size Units	Tracer Spike System Yield % Recv % Detector	Spike System Recv % Detecto	System Detector	Packet-Item Sample
CAU4860007	RA226	1.37E + 00	3.6E-01		1.9E-01	pCi/g	05-18-00	05-08-00 8.03E + 02	8.03E + 02	Ë			05-01	H2977-6-75482
CAU4860007	TH228	2.08E + 00 4.0E-01	4.0E-01		1.4E-01	pCi/g	05-18-00	05-08-00 8.03E + 02	8.03E+02	шô	1011		05-01	H2977-6-75482
CAU4860007	TH232	2.52E+00 7.7E-01	7.7E-01		4.9E-01	pCi/g	05-18-00	05-18-00 05-08-00 8.03E+02	8.03E+02	ШŐ			05-01	H2977-6-75482
CAU4860007	AM241	0.00E + 00	0.0E + 00	Ð	6.9E-01	pCi/g	05-18-00	05-08-00 8.03E + 02	8.03E + 02	Eß			05-01	05-01 H2977-6-75482
CAU4860007	CS137	0.00E + 00	0.0E + 00	Þ	7.2E-02	pCi/g	05-18-00	05-08-00 8.03E + 02	8.03E + 02	E			05-01	05-01 H2977-6-75482
CAU4860008	K 40	2.73E+01	5.0E + 00		1.4E+00	pCi/g	05-18-00	05-08-00 7.96E + 02	7.96E+02	ШŐ			05-01	05-01 H2977-7-75511
CAU4860008	RA226	1.43E + 00	3.5E-01		1.9E-01	pCi/g	05-18-00	05-08-00	05-08-00 7.96E + 02	Шĝ			05-01	H2977-7-75511
CAU4860008	TH228	1.99E + 00	3.8E-01		1.4E-01	pCi/g	05-18-00	05-08-00	05-08-00 7.96E + 02	Eß			05-01	H2977-7-75511
CAU4860008	TH232	1.91E + 00	7.6E-01		4.9E-01	pCi/g	05-18-00	05-08-00	05-08-00 7.96E+02	Ë			05-01	H2977-7-75511
CAU4860008	AM241	0.00E + 00	00E + 00 0.0E + 00	>	6.9E-01	pCi/g	05-18-00	05-08-00 7.96E + 02	7.96E + 02	шß			05-01	H2977-7-75511

Comment:

CAU 486 samples. This report is Data generated from analyses of follow up to original submitted.

Qualification Flags:

Note: Error is the Prep + 2.0 Sigma Error

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

- L = Low Recovery for Sample
- $\partial \mathcal{T}$ P = Preliminary Results

Date: ///

Date://

Approved by: M

Prepared by:

- **O** = Bad Instrument Quality Control, Result is OK
- = Results are Unusable, Resampling is Necessary
- $\partial O U = Result is less than Minimum Detectable Activity$

(COA)

P.O.Box 3936, N. Las Vegas, NV 89036 ANALYTICAL SERVICES LABORATORY

,NV,89193-8521 Reported to: Env. Restoration - Ind. Sites P.O. Box 98521 **M/S NTS306** Las Vegas

Type: Soil, Gross

Anałysis: Gamma Spec.-20 Minute Scan'

Batch: N772 Sample Delivery Group: D321

Report Date: 15-NOV-00

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Program: 720

Report No

Sample ***** Identification *****	Isotope	Result	Error	Oual Flag		Result Units	MDC Result Analysis Sample Units Date Coll Date	Sample Coll Date	Size	Size Units	Size Tracer Spike System Units Yield % Recv % Detector	Spike Recv % [System Detector	Packet-Item Sample
CAU4860008	CS137	0.00E + 00	0.0E + 00	>	0E+00 0.0E+00 U 7.2E-02 pCi/g 05-18-00 05-08-00 7.96E+02 gm	pCi/g	05-18-00	05-08-00	7.96E + 02	E			05-01	05-01 H2977-7-75511
QA BKGEmpty Btl U05	No Nucl Det 0.0	0.00E + 00	00E+00 0.0E+00 U	>	0.0E+00	NA	05-18-00	05-18-00 01-19-00 1.00E+00	1.00E + 00	Eß			05-01	05-01 00796-0-00286
QA SP:NAS-A9987	AM241	1.63E+01 2.1E+00	2.1E+00		2.6E-01	pCi/g	05-18-00	05-18-00 03-01-99 8.35E + 02	8.35E + 02	۳ę		94.7	05-01	05-01 00797-4-13018
QA SP:NAS-A9987	0900	2.44E + 01	14E + 01 2.7E + 00		1.2E-01	pCi/g	05-18-00	05-18-00 03-01-99 8.35E+02 gm	8.35E + 02	Ш		97.7	05-01	05-01 00797-4-13018
QA SP:NAS-A9987	CS137	1.96E+01 2.1E+00	2.1E+00		9.5E-02	pCi/g	05-18-00	9.5E-02 pCi/g 05-18-00 03-01-99 8.35E + 02 gm	8.35E + 02	μĝ		101.1	05-01	101.1 05-01 00797-4-13018

Note: Error is the Prep + 2.0 Sigma Error (COA) Date: //-/f - OOU = Result is less than Minimum Detectable Activity R = Results are Unusable, Resampling is Necessary Q = Bad Instrument Quality Control, Result is OK H = High Recovery for Sample J = Result is less than the RDL L = Low Recovery for Sample P = Preliminary Results E = Estimated Quantity **Qualification Flags:** Data generated from analyses of CAU 486 samples. This report is follow up to original submitted. 5 Approved by: NAM Prepared by: Comment:

P.O.Box 3936, N. Las Vegas, NV 89036 ANALYTICAL SERVICES LABORATORY

,NV,89193-8521 Reported to: Env. Restoration - Ind. Sites P.O. Box 98521 **M/S NTS306** Las Vegas

Type: Water

Analysis: Gamma Spec.-20 Minute Scan

Report Date: 16-NOV-00 Batch: N773 Sample Delivery Group: D321 Program: 720

Report No. :

Sample	lsotope	Result	Error	Oual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Tracer Yield %	Tracer Spike System Yield % Recv % Detector	System Detector	Packet-Item Sample
CAU4860009	No Nucl Det	0.00E + 00	0.0E + 00	>	0.0E + 00	Ą	05-18-00	05-08-00	05-08-00 4.94E + 02	Ē			06-01	H2978-0-75362
CAU4860009	U 238	0.00E + 00	0.0E + 00	Ð	1.3E+04	pCi/L	05-18-00	05-08-00	05-08-00 4.94E + 02	Ē			06-01	H2978-0-75362
CAU4860009	AM241	0.00E + 00	0.0E + 00	>	2.3E + 02	pCi/L	05-18-00	05-08-00	05-08-00 4.94E + 02	Ē			06-01	H2978-0-75362
QA BKGWater U06	No Nucl Det	0.00E + 00 0.0E + 00	0.0E + 00	D	0.0E + 00	NA	05-18-00	01-19-00	01-19-00 5.00E + 02	Ē			06-01	00813-2-00287
QA BKGWater U06	0900	0.00E + 00	0.0E + 00	Þ	7.5E+01	pCi/L	05-18-00	01-19-00	05-18-00 01-19-00 5.00E+02	Έ			06-01	00813-2-00287
QA BKGWater U06	AM241	0.00E + 00	0.0E + 00	>	2.6E + 02	pCi/L	05-18-00	01-19-00	05-18-00 01-19-00 5.00E+02	Ē			06-01	00813-2-00287
QA BKGWater U06	CS137	0.00E + 00	0.0E + 00	_)	9.3E+01	pCi/L	05-18-00	01-19-00	01-19-00 5.00E + 02	Ē			06-01	Q0813-2-00287
QA SP:QAW-6	AM241	3.32E + 05	2.7E+04		9.0E+02	pCi/L	05-18-00	08-01-90	08-01-90 2.25E + 02	Ē		106.8	06-01	00814-1-13019
QA SP:QAW-6	0900	3.13E+05	2.8E+04		1.4E+03	pCi/L	05-18-00	08-01-90	08-01-90 2.25E + 02	E		97.6	06-01	Q0814-1-13019
QA SP:QAW-6	CS137	2.71E+05	2.2E + 04		4.8E + 02	pCi/L	05-18-00		08-01-90 2.25E+02	Ē	1	98.3	06-01	06-01 Q0814-1-13019

Comment:

CAU 486 samples. This report is Data generated from analyses of follow up to original submitted.

Prepared by:

Qualification Flags:

Note: Error is the Prep + 2.0 Sigma Error

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Date: <u>//</u>

Date://

Approved by:

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

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**** End of Report ****

(COA)

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04/27/200D		NTS - PRODUCTION	CHAIN OF CUSTODY RECORD: CAU 486	505#: 0331 DTRSA-1
	Job Number; 23220	220	Cooler ID:	
	Facility ID: NTS	-	Gonlar Tanna.	Delivery Order ID:
Sa	Sampling Event: CAU 486 DTRSA	U 486 DTRSA		SEIR No.: CAU 496 DTRSA-1-0
	COC Number: CAU 486 DTRSA-1	U 486 DTRSA-1		Charge Code: C7C774AA
	Laboratory: ASL	-	Loghook No -	μК0/34000
Samp	Sampled By: D. H.	Cox 1	hald I	720
Pequeste	⁵ equested Analysis:	Sign	Print	Sign
Site ID	Station ID	Samp Sample ID Type	Matrix Code	
52	DBLE TRACK	DBLE TRACKS RADS CAU4860001 GRAB	SO CEMAYOC 1535	<u>s</u> S
	Pay Item	Description	rameter Anal Filt	
	11_04	Gamma Spec20 Min Scan / Soil, 500 mL Bottle	HNON	LVI Comments 795% 735 STD Ensure 1 pc1/g for Am-241
52	DBLE TRACKS	DBLE TRACKS RADS CAU4860002 GRAB	80 M. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
	Pay Item	Description	UDITIATCO 154C 08MAC	1540 Ana
•	11_04	Gamma Spec20 Min Scan / Soil, 50	500 mL Bottle Norm U 60	LVI Comments 746 STD Ensure 1 pC1/g for Am-241
52	DBLE TRACKS	DBLE TRACKS RADS CAU4860003 GRAB		
	Pay Item D	Description	Prior	S낙갻 Anal
	11_04, G	Gamma Spec20 Min Scan / Soil, 500 mL Bottle	2000	Lvi Comments H7 STD Ensure 1 pc1/g for Am-241
	-			
		is package conforms to the conditions and limit	This package conforms to the conditions and limitations specified in 49 CFR 173.421 for excepted radioactive material, limited quantity, n.o.s., UN2910.	d quantity, n.o.s., UN2910.

04/27/2000	**	NTS - PRODUCTION	CHAIN	AIN OF	CUSTOD	N OF CUSTODY RECORD:): CAU 486	486 DT	DTRSA-1	Page 2 of 6
Requested Analysis:	Analysis:									1
Site ID	Station ID	Sample ID	Samp Type	Matrix Code	Collection Start Date	StartTime	Collection End Date	5 4	End Time	
52	DBLE TRAC	DBLE TRACKS RADS CAU4860004	GRAB	s D	CBHAYCO	1550	CBMAYOC	YOC	15.50	
•	Pay Item	Description				Parameter A Code C	Anal Fi Cd C	Filt Prior Cd Lv1	Anal Lvi o	comments 753
	11_04	Gamma Spec20 Min Scan / Soil,		500 mL Bottle		Z	NORM	U 60	STD	Ensure 1 pC1/g for Am-241
						1				1
Q	DBLE TRAC	DBLE TRACKS RADS CAU4860005 Dav Hern Description	GRAB	8 8	COMAYCC	ISSS Parameter / Code 0		5	Anal Evi	comments 805
	11_04	Gamma Spec20 Min Scan / Soil, 500 mL	11, 500 1	d Bottle		~	NORM	U 60	stD	Ensure 1 pC1/g for Am-241
										I
52	DBLE TRAC	DBLE TRACKS RADS CAU4860006	GRAB	30 of	obmay co	1	Ě	20	200	
	Pay Item	Description				Parameter Code	Anal Cd	Filt Prior Cd Lvl	Anal Lvi	comments 773
	11_04	Gamma Spec20 Min Scan / Soil, 500 mL	11, 500 1	mL Bottle			MORN	U 60	STD	Ensure 1 pC1/g for Am-241
						1 6.6		-		1
52	DBLE TRAC	DBLE TRACKS RADS CAU4860007	AKAB	3	COMAYOU	Parameter	L H H	Prior	Anal	
• •	Pay Item	Description					Cd	cd Lvt	Ē	comments 803
	11_04	Gamma Spec20 Min Scan / Soil, 500 mL	11, 500	mi Bottle			NORM	U 60	STD	Ensure 1 pC1/g for Am-241
•										

This package conforms to the conditions and limitations specified in 49 CFR 173.421 for excepted radioactive material, limited quantity, n.o.s., UN2910.

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Regine te	d Analycic.		CHAI	CHAIN OF CUSTODY RECORD: CAU 486 DTRSA-1	JDY RECO	RD: C	AU 486	DTRSA	-1 Page 3 of
Isanhay	vequested Analysis:								
Site ID	Station ID		Samp Ma Type Co	Matrix Collection Code Start Date	StartTime		Collection End Date	End Time	
52	DBLE TRAC	DBLE TRACKS RADS CAU4860008	GRAB SO	OQUANT		Ę		:	
	Pay Item	Description			Parameter	Anal	al Filt Prior	Anal CO	<u>r</u>
	11_04	Gamma Spec20 Min Scan / Soil, 500 mL		Bottle		NORM	U 60		Comments 776 Ensure 1 pC1/g for Am-241
	DBLE TRACT	DBLE TRACKS PARS CONTRACTORS							
			GRAB SO	OBMAYOO	ISCO	084	OBMAGO	1500	
	Pay Item	Description			Parameter Code	Anal Cd	Filt Prio Cd Lvl		
	11_04	Gamma Spec20 Min Scan / Soir , 500 mL	•	Bottle		NORM			Comments 5.5/
		RING	RINSATE					OIS	Ensure 1 pc1/g for Am-241
52	DBLE TRACT	DBLE TRACKS RADS CAU4860010 G	GRAB SO						
						V	11		No Shun I
	Pay Item	Description			Parameter Code	Anal Cd	Filt Prior Cd Lv1	Anal Lv1	
	11_04	Gamma Spec20 Min Scan / Soil, 500 mL 1	, 500 mL Bot	Bottle		NORM	U 60	STD	connients Ensure 1 nrd /// ferr all and
									THE TOY BITTE
52	DBLE TRACK	DBLE TRACKS RADS CAU4860011 G	GRAB SO						
					Davantsfar				NO SAUPLY
	Pay Item	Description				Cd	Cd Lvi	Anal Lvi	Commente
	11_04	Gamma Spec20 Min Soan / Soil,	500 mL Bottle	tle	-	NORM	U 60	STD	
									142-W-541
		This package conforms to the conditions and limitations specified in 49 CFR 173.421 for excepted radioactive material, limited quantity, n.o.s., UN2910	limitations spec	ified in 49 CFR 173	.421 for excepted	radioactive	material, limi	ted quantity,	n.o.s., UN2910.
ŀ	B				-		.		

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04/27/2000

04/27/2060	·	NTS - PRODUCTION	CHAI	AIN OF	CUSTOE	N OF CUSTODY RECORD: CAU 486 DTRSA-1): CAU	486 D	TRSA-	1 Page 4 of 6
Requested	Requested Analysis:									
Site ID	Station ID	Sample ID	Samp Type	Matrix Code	Collection Start Date	StartTime	Collection End Date	5 4	End Time	The second se
52	DBLE TRACKS	DBLE TRACKS RADS CAU4860012	GRAB	so						- No Same
	Pay Item	Description				Parameter A Code C	Anal Filt Cd Cd	h Prior d Lvl	Anal Lvl	Comments
	11_04	Gamma Spec20 Min Scan / Soil, 500 mL	1, 500 1	ú Bottle		Ā	NORM	U 60	ors	Ensure 1 pCi/g for Am-241
/										
2	DBLE TRACK	DBLE TRACKS RADS CAU4860013	GRAB	so				-		No Shurer
	Pay Item	Description				Parameter A Code C	Anal F Cd C	Filt Prior Cd TVI	Ańal Lvi	Comments
	11_04	Gamma Spec20 Min Scan / Soi	Soil, 500 mL	IL-Bottle		N	NORM	U 60	STD	Ensure 1 pCi/g for Am-241
22	DBLE TRACK	DBLE TRACKS RADS CAU4860014	GRAB	so						NO SAMPLE
	Pay Item	Description				Parameter A Code C	Anal F Cd C	Filt Prior Cd Lv1	Anal Lvi	Comments
	11 0	Gamma Spec20 14411 Scan / Soil, 500 mL	11, 500 1	A Bottle		2	Maon	99 2	STD	Ensure 1 pC1/g for Am-241

This package conforms to the conditions and limitations specified in 49 CFR 173.421 for excepted radioactive material, limited quantity, n.o.s., UN2910.

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Containers Included on C.o.C.:

Sample ID	Container ID	Preservative	Filter Code pH	Container Type	Comments
CAU4860001	CAU486000101	Inon		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 m. Pottle
CAU4860002	CAU486000201	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860003	CAU486000301	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860004	CAU486000401	ANON		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860005	CAV486000501	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
AU4860006	CAU486000601	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860007	CAU486000701	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860008	CAU486000801	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860009	CAU486000901	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860010	CAU486001001	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20_Min_Bcan / SOI1, 500 mL Bottle
CAU4860011	CAU486001101	NONE	Ň	NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860012	CAU486001201	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860013	CAU486001301	NONE		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan / Soil, 500 mL Bottle
CAU4860014	CAU486001401	ANON		NALGENE BOTTLE 500 ML	Gamma Spec20 Min Scan 7 So41. 500 mL Bottle
		C NC			
		J. HIMMAC	ب		

This package conforms to the conditions and limitations specified in 49 CFR 173.421 for excepted radioactive material, limited quantity, n.o.s., UN2910.

04/27/2000 Transfer Information:	NTS - PRODUCTION		CHAIN OF CUSTODY RECORD: CAU 486 DTRSA-1	CAU 486 DTRS/	-1-V	e e e e e e e e e e e e e e e e e e e
Relinquished By	Received By	Transfer Date/Time	Reason	Shipper	Airbili No.	Traffic Report No.
Laborard (Las	Chlastonida	Fulon 6 0739				
Comments:						
	:					
Potential Contamination Yes No Radiological Chemical	ination Yes No cal					
	This package conforms to t	the conditions and limitations sp	This package conforms to the conditions and limitations specified in 49 CFR 173.421 for excepted radioactive material, limited quantity, n.o.s., UN2910.	oactive material, limited qu	antity, n.o.s., UN2910.	

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Interoffice Memorandum

To: W. F. Johnson

Date: June 6, 2000

From: L. W. Hatcher Analytical Services Laboratory, 295-7109 No.: 2154-LH-00-0448a

Subject: DATA REPORT FOR SAMPLE DELIVERY GROUP (SDG) D321-AMENDED Project No. 04001

Analytical Services Laboratory's (ASL) data results for the gamma spectroscopy analyses for the eight soil samples and one water sample submitted to the laboratory on May 16, 2000 are included with a copy of this memorandum to J. L. Smith. The service statement summarizing the costs and work performed by the Analytical Services Laboratory is also included.

A Bechtel Environmental Integrated Data Management System (BEIDMS) deliverable was also requested for this sample set. The BEIDMS electronic data file was loaded on June 1, 2000 in BEIDMS under document identifier "CAU 486 DTRSA-1".

Please direct any questions you may have to your Client Service Representative, Ted Redding, at 295-7220.

For L. HATchen

LWH:mcr Subject Code: ENV3

cc: Correspondence Control, NLV008 S.M. Parsons-DePry (results enc.), NTS306 D. M. Van Etten NLV082 ASL D321, (results enc.) NTS273

APPENDIX D

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APPENDIX D

FIELD NOTES

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	TITLE	IKACKS K	HUSHPE PROJECT NO.	
58	Work continued from Page	-		
08	30 DEPART FOR TR			
	D-TTR, LUNCH			
_12	00 - SECURITY OFFICE,	4/CATHY R	E SENISITIVE EQUIPM	IENT
	PASS	• 		
5	- OVER TO RADIO SH	10P M/KE	N MOLKE, PICK UP R	ADIOS (3)
	- BACK TO MAIN GA	E, PICK U	P SAT. TELEPHONE	
	- BACK TO OFFICE	<u>r</u>		
13	30 - FORM UP GROUP	w/HEAVY	EQUIPMENT, HEAD	out
s 	TO DOURLE TRACK	5		
0 14	15 - ARRIVE DOUBLE TRA	teks	·	
14	13- UNLOAD EQUIPMENT			
_6	00 - EOD ARRIVES, STAF	F SGT WALTE	RS & SR. AIRMAN RAL	NE.
,	VERIFY TRAINING RE	ORDS.EDT	D BEGINS SWEEP OF	
. <u> </u>	RADSAFE AREA.			,
5 15	25-EOD REPORTS METALIC	SIGNATUR	E APPROX 30 METERS	S X S METERS
	CORRISPONDICKS WITH C	ENTER OF	BURIAL POT ("TOOBIG"	TO BE A BOMB")
<u>i53</u>	C - EOD DEPARTS,		•	
	0 - DEPART DOUBLE TRACK	<u>ج</u>		
164	0- ARRIVE BN OFFICE.		· · ·	
20	- CONTRAT JEER' BONN - L			
	- PREP FOR TOMORROW	itorer Do	CUMENTATION	
174	5 - SECURE OFFICE, S			-
		<u> </u>		
			······································	
25				
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SCIENTIFIC S	SHEDERY PRODUCTIONS CHICAGO 80805 Mede in USA	Ŵ	Work conti	nued to Page
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TITLE CAU 486, DOUBLE TRAdes RADSAFE PROJECT NO.	59m
Work continued from Page O2MAY OO BOOK NO.	• • •
0630 - FORM UP AT BN OFFICE, CLEAR, CALM	±60°F •
0700 - TAILEATE SAFETY BRIEFING, PROJECT DOCUMEN	
- REVIEW TODAYS ACTIVITIES, GAS-UP, PREPFOR	
- LOGISTICS; FUEL FOR EQUIPMENT, PORTABLE TOILE	i i i i i i i i i i i i i i i i i i i
5 - WATER TRUCK PTU, PROBLEM - CONSTRUCTION TO	
OBOC - FORMED UP MAIN GROUP, DEPART FOR DTRSP	, ACCESS GATE'S
0900 - ARRIVE DIRSA, SET-UP, PREP EQUIPMENT, STE	WALK.
- DISCUSS EXCAUATION TO START, ORIENT ON O	RIGINAL BURIAL PIT
- PAINT SURFACE, & PHOD'S; START WITH # 62	-,61,60 OF
10 BURIAL PIT LOOKING NORTH & WEST, 3 BORINGS	STAKES, ETC,
0925 - ATTEMPTED TO CALL J. BONN USING SATELLITE PHONE	-UPDATE
0940 - REVIEW RWP, SIGNATURES, OPERATOR - JIM FISHER & HE	
DEN PPER STEVE RIEDHAUSER, RADIATION SCIENTIST (RS	J JOINS THE
ENTRY TEAM.	
15 1000 - ENTRY TEAM INTO EXCLUSION ZONE (EZ), BACKHOE IN	DEZ
1010 - BEGIN EXCAUNTION OF BURIAL PTT. PHOTO'S #59,	58
- USING FIDLER'S IN EXCAUATION, PHOTO # 57, 5	PCKPILING CLEAN-
FILL AT SOUTH END OF EXCAUATION.	
1050 - EXCAVATION ABOUT 2.5 FT. DEEP. BEGININNING TO SEE ME	TAL AND PLASTIC
20SCRAPS, NO ELEVATED READINGS ON FIDLER YET, CONTINU	LE TO STOCKPILE
CLEAN FILL AT SOUTH END OF EXCAUATION.	
110 - AT APPROXIMATELY 3.0 FT BGS. WIRE, WOD & PLAST	C CBEERLED
NO ELEVATED RADIOLOGICAL READINGS OBSERVED, CONTIN	ile stakpiling
OF CLEAN FILL, PHOTO #56 LOOKING SOUTH.	
25 1200- LUNCH Prowe	R BANK
1230- RE-ARRANGING GENERATOR HND HOOK-UP/FUSE F	ANEL IN ORDER
TO FACILITATE SPOTTING RAD COUNTING/LUNCH TR	AILER.
- C. LYONS, B. TEMPLETON AND I MEET TO DISCUS	
	Work continued to Page <u>60</u>
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60	TITLE CAU 486 DOUBLE		DSAFE project no . BOOK NO. 3	
	MEETING TO DISCUSS OPER		TINUED - WE WILL C	LEAN FLOOR
	OF EXCAUTION, AND MOVE			
	THEN POTHOLE THE EXPE			
1300	0- BEGIN CLEANING EXCAVA			
	9-C.LYONS AND D. COOPER			
	2- START FIRST POTHICLE			
	- STEVE RIEDHAUSER D	INS PPE 2	ENTERS EZ	
1430	- POTHOLE & EXCAURTE IN			E: NB3"
	LOCATION. WE ARE OBVI			-
	OF THE BURIAL PIT EXC.			
	OVER ALL EXCAVATION			FY
<u></u>	"FLOOR OF EXAUATION			
	NOTE :NOTE SUGHT ELEV	ATTON IN RAT) (=====) IN ON	NE SMALL
	AREA OF DEBRIS, AND.			
	TRAGH EXPOSED		······································	
1446	5-CONTRACTED J. BONN F	RE CONFIRM	ATTON OF PLAN.	
	- CONTINUE WITH WORK	PLAN,		
1500	- MOVED THE FIRST B-	25 1NTO TH	EEZ, FILLED THE	B-25 WITH
<u>م</u> م	SOIL AND DEBRIS,		•	
1515	5 - INSTALLED THE HPGE	E DETECTOR C	VER B-25, FIRST 1F	TLIFT-
	NO INDICATIONS OF AC	TIVITY, FILLE	B-25 WITH SECON	D LIFT,
<u></u>	z1 sc zC	et et		D LIFT,
••••••••••••••••••••••••••••••••••••••	N 46 16	" ON ANY	OF THE THREE IN	
25	(ELECTRA, FIDLER, OR H	~		
153	B - ALL DEBRIS AT THIS P		SH, NO HOT-LINE M	ATERIAL
	45 - MOVED BACKHOE TO ER		•	
	SH PURTY GERMAINIUM			
	NDERY PRODUCTIONS CHICAGO 60605 Mode in USA		Work co	ontinued to Page <u>6/</u>
SIGNATU	S. Azlan	· · · · · · · · · · · · · · · · · · ·		DATE
	- mard TV.		• · · · · · · · · · · · · · · · · · · ·	

TITL	ECAU 486 Dauble Tombue from Page 60 02	TRACKS RADE	あFE PROJECT NO. BOOK NO. っ	61
				,
1270	5-CONTINUED. EXTE THE "ENT1" TREE	<u> </u>		
	CONTRMINATED DEBY	RS) UNE F	SAG HAG BEEN FOU	ND WITH
	RADCON STICKE			
5	NOT HOT-LINE WAST	E, AND THERE	E 15 NO ELEVATED	RADIO LOGICIAL
	ACTIVITY. (X) Most	ZY TAPE, PAPE	R, FOOD PACKAGIN	G, ETC
1600	- Moved BACKHOE TO VEXCAVATION OF TO SOUTH.	South Side	OF EXCAUATION, E	XTEND LENGTH
1615-	- Movied Brackhoe to Se	HE NORTH SIDE	E OF EXCAUATION, EX	TEND LOUTH
10	OF EXCAVIFICAL TO NOR		•	
	CUT EAST WEST TR			AVATION!
1630	- THREE BAGS OF TR			
	- SECURE EXCAVATIO			
	- FRISK CREW OUS			ATION
15	Lock up Equipment	•	BEQ	<u></u>
1700				
	- LEAVE RANGE 7			
10-	DITSO- BACK TO O		EXT DACING BUTAT	
4000		FFRE, FRESE	ECT DOCUMENTAT	
20		• · • · · · · · · · · · · · · · · · · ·		
	· · · · · · · · · · · · · · · · · · ·		/	
				······
	<u> </u>			
25	/	/	·	
	TAMINATED MATERIAL"			
·····	DERY PRODUCTIONS CHICAGO 50505 Made in USA			Work continued to Page
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62	TITLE CAU 486 Double TA Work continued from Page	MAYDE		ст NO. Ж NO. <u>З</u>
063	C-PICKUP LUNCHES, TO C		ET DOCUMENT	ATION
	5 - TRECON W/ J. BONN	•		
	D- TAILGATE SAFETY BRIE			S RANGE
	COORDINATION, LOGISTICS			
5072	D-FORM-UP GROUP & H		TRACK	<u> </u>
	5-ON SITE, SET-UP, CL			,
	- METW/ C. LYONS C			ONE R-25 AFET?
<u> </u>	THE SIDE FOR ANYTHIN		•	
	ELEVATED RAD. 2. IN			
	ATTEMPED ATTEMPT TO			
	CLEAN SOIL FROM THE			LE TRICKITY OF THE
	5-TELECON FROM RANGE			EDULE TADAL HOU
	FRIDAY. TOMORROW WE			
				-
1	100 FT AGL I TOLD K	KHINGE SCHEL	ucina we di	D IVOI FIAUE A 1705CETY
	INITH THIS OPERATION.	a atta ri		
3020	- STAGING B-255, PHOTO	•	•	
<u></u>	- WATER TRUCK ON SITE - V	<u>vvci jown ex</u>	CHVATION & IMP	LEDIATE SURROUNDING
<u> </u>	AREA.			• • • • • • • • •
<u> </u>	D-BEGIN LOADING B-255,	SEGMENTING	<u>i Material, PC</u>	HSTR, WIRE, ETC.,
	FROM SOIL.			INTERPRETATION
• • • •	- ATTEMPTED TO CONTACT -			CHANGE TO THE
	WORK INSTRUCTIONS, - NE			
1030	D- CNE BAG SEPERATED F			,
	WITH CONTAMINATION TH	· _	•	
25	ON THE FIDLER. 9 PH	lotos (41-50	DE) OF OPERAT	TON AT THIS POINT,
	EXCAURTING, DUST C	•		
///:	5 - FOUND ONE BAG ME	ASURING 500	COUNTS SEC,	AND TWO BLACK
	TOTES MEASURING, E	300 \$ 700 CC	OUNTS SEC R	
				Work continued to Page <u>63</u>
SIGNATUR	model 7 Com		•	OBMAY CC
SCLOSE	TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

Work continued from Page 62 MAY DHE BOOK NO. Z	63
1200-LUNCH	
1230- OPERATOR DONS PPE - FRISKOUT FORKLIFT IN PREPARATION FOR	
SITE SUPPORT PACILITY RE-ARRANGEMENT, B. TEMPLETON PRESE	NTLY_
IN ROUTE TO SITE WITH ELECTRICIAN.	
1250 - TEMPLETON & ELECTRICIAN ON SITE, MOVE WATER BUFFALO &	
GENERATOR, ELECTRICIAN HOCKING UP GENERATOR,	
1315 - RESUME EXCAVATION SEPERATION PROCESS	
1335-ONE BAG COLLECTED WITH RADCON TAPE, CONTAINING MOSTLY TH	APE-
NO ELEVATED ACTIVITY APPARENT,	
1340 - ONE LARGE BAG OF ANTI-CS AND TOTES COLLECTED AND ADDET	>
TO "RAD CONTAMINATED" B-25, NO ELEVATED ACTIVITY APPARENT,	·
1350 - TWO B-255 ARE NOW FULL, CHANGE-OUT WITH EMPTY BOXS,	
-THE TWO FULL B-255 MOVED TO THE HPGE TESTING AREA,	
1414 - RESUME EXCANATION/SEPARATION PROCESS.	
1500 - A/A, PHOTO'S# 38, 39, 40, 41,	<u></u>
1515 - ONE BAG OF GLOVES RECOVERED, NO ELEVATED ACTIVITY APPARENT.	
-ONE BAG OF LATEX GLOVES RECOVERED, 370 COUNTS/SEC INDICATED.	
1615 - CONTINUE EXCAVATION / SEPERATION PROCESS.	
- CLEAN-UP EXCANATION, SECURE LOCATION.	
1630 - DEPART RANGE 71 N.	· · · · · ·
1700-ARRIVE BNOFFICE, AREA 3.	
- PROJECT DOCUMENTATION.	
SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 80605 Made in USA Work continued to Pa	ge
	AR CO
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TITLE CAU 486 DOUBLE TRACKS RADSAFE PROJECT NO. 64 BOOK NO. Z Work continued from Page_____ 04 MAR. OD 0630 - PICK UP LUNCHES, TO OFFICE, PROTECT DOCUMENTATION 0700 - TAILGATE SAFETY MEETING, FORM-UP GROUP -0730 - DEPART FOR DOUBLE TRACKS OBIO - ARRIVE DOUBLE TRACK SITE, PREP TO BEGIN WORK. 50830 - BEGIN EXCAVATION SEPERATION PROCEDURE OBSO-ONE RAG (PLASTIC) CONTAINING RAD TAPE, 700 COUNTS 550 6905 - CONTINUE EXCAUATION SEPERATION PROCEDURE, PHOTO'S # 55,36,37,38. 0950-ONEBAG (PLASTIC) CONTAINING RAD TRASH, 600 COUNTS/SEC (FIDLER * RUBBER, PPE, WOOD, ETC. 10 SKETCH # + 35 20 15 (40 7σ 7 to 20 RUBBLE; COBRLES, Bouchers 25 CONTINUED ON NEXT PAGE FIC BINDERY PRODUCTIONS CHICAGO 60606 Work continued to Page 6 DATE SIGNATURE F OH MAY OO DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

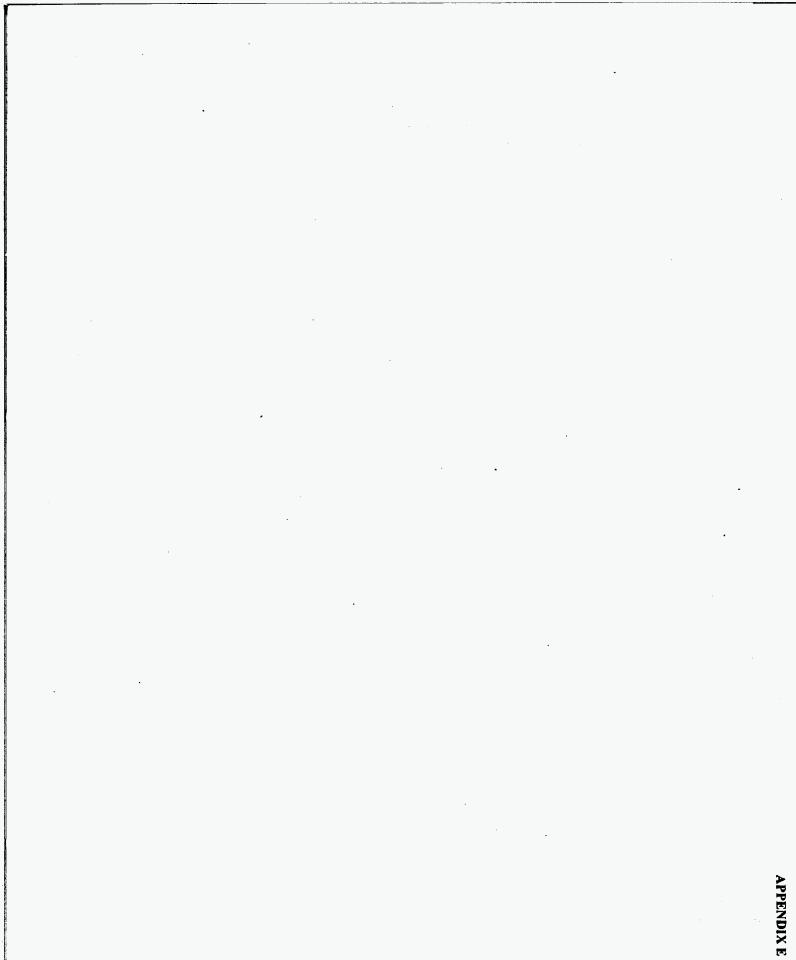
TITLE CAU 486 DOUBLET RACKS Work continued from Page 64 04 MAY	RADSAFE	PROJECT NO. BOOK NO. 3	65 =
1000 - DN PPE, ENTER EZ,		RIFICATION SAMPLES,	MEASARE
EXCAUATION, SEE SILETE	h on page	64	
- CLEAN UP FLOOR OF EX		· · · · · · · · · · · · · · · · · · ·	
1100 - DOFF PPE, EVERYONE OF	UT OF EZ	BACK HOE OPERATOR PU	TING
5 BERM AROUND EXCAUATION	FORTHEN	IEEKOND.	
1200 - LUNCH SECURE LOU	ATION		
- HEAD BACK TO BN-O			
1330 - BN OFFICE			
- PROJECT DOCUMENTATION	, TELECON	IS, LOGISTICS,	
10 1430 - SECURE AND DEPART I	OCATION,		
	<u>\</u>		
15			
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TITLE CAU 486 DURIETRACKS RADSAFE **PROJECT NO.** 66 BOOK NO. 3 Work continued from Page _____ OB MAY OO 0830 - ARRIVE TTR, PICKUP CAMERA PERMIT, STOPPED BY THE BASE COMMANISERS OFFICE, THE COL. WAS NOT IN. - TO BN OFFICE, TELECON WITH J. BONN; 1. DISCUSSION RE EXTENDING THE EXCAVATION, 2, LOGISTICS, - VARIOUS TELECONS BLACKTACK-RANGE SCHEDULING, LASERS WORKING IN RANGE 71 South, THIS AFTERNOON, HABERMAS 1050 - TAILGATE SAFETY MEETING. REVIEW TODAYS TASKS. HABEMAS E-MAIL 1130 - LUNCH 1230 - FORM-UP & HEAD FOR DOUBLE TRACKS. - WAITING ON GATE ACCESS (CACTUS SPRING GATE) (AFTER BEING CHIDED 10 LAST WEEK BY CACTUS, FOR NOT GIVING THEN ENDUGH TIME, I CALLED TO DAY FROM THE BN OFFICE PARKING LOT, AND WE STILL HAD TO WATT FOR THEM AT THE GATE) 1330- ARRIVE AT DOUBLE TRACKS SITE, PREP, DON PPE, CHECK EXIPMENT - BEGIN EXTENDING NORTH AND SOUTH BOUNDRY OF THE EXCAVATION, L 1530 - SUTUP, INTO EZ, EXCAUATE AND COLLECT SAMPLES. SEE FLAGRAM # 20 1535 - SAMPLE #1, 1540 - SAMPLE #2, 1545 - SAMPLE #3, 15,50 - SAMPLE # 4 1555 - SAMPLE # S, 1600 - SAMPLE # 6, 1605 - SAMPLE # 7, 1610 - SAMPLE # 8. 1615 - PUGH IN CORNERS OF EXCAVATION, ALL SAMPLES CHECKED WITH HPGE DECTOR, Dtc, AND THEN SWIPED BY RETS. 20 1650 - EVERYONE OUT OFEZ, SECURE AND DEPART LOCATION, 1720 - BACK TO BN OPPICE, PROJECT DOLUMENTATION 25 SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 40605 Made in USA Work continued to Page SIGNATURE DATE CRMAYOD DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

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Work continued tran Page       OP MAY CO       BOOK NO. 3         0520-FARM-UP AT BN OFFICE. PLOTECT DOCUMENTATION.       0700 "ALLGATE SAFETY MEETING, DISCUSS TODAYS ACTIVITIES, PREP FOR FIELD; GAS, LUNCHS, ICE, CE. HEAD FOR DOURLE TRACKS. CLEAR GATES.         0815-ARRIVE DOUBLE TRACKS RADSAFE, HIGH CLOUDS, ISS"F, HIGH CLOUDS, TASTER, DOUS PTE, HEADS INTO EZ, SERVICE EQUIPMENT         0820-EARDR DOUS PTE, HEADS INTO EZ, SERVICE EQUIPMENT         0830-LARDRER DOUS PTE, NODEZ, SERVICE EQUIPMENT         0830-LARDRER DOUS PTE, HEADS INTO EZ, SERVICE EQUIPMENT         0830-LARDRER DOUS PTE, NODER TO DEPOST AREA.         0910-RCT (R.D.) DONS PTE, ACCESS "DECONTAMUNATION FACULING         0910-RCT (R.D.) DONS PTE, ACCESS "DECONTACINATION FACULTY" FOR         1000-ESCORTED RSL OFF RANGET TINE ON BACKET TO TRANSFER         0910-RCT (R.D.) DONS PTE, ACCESS "DECONTACINET TREAL PLANT         1020-BLEW FRONT LEFT TIRE ON BACKET TO TRANSFER SOUL         1130-FLEU TREE LOGISTICS,	68	TITLE CAU 486, DOUBLE T.	RACKS RADS	AFE	PROJECT NO.	
COSO-FARIT-UP AT BN OFFICE. PLOTECT DOQUMENTATION. OTDO - MILGARE SAFETY MEETING, DISCUSS TODAYS ACTIVITIES, PREP FOR FILE D; GAS, LUIXHS, ECE., CTC., HEAD FOR DOUBLE TRACKS, CLEAR GATES, OB 15-ARRIVE DOUBLE TRACKS RADSAFE, HIGH CLOUDS, ILSS, F, HIGH CLOUDS, 5 - OPERATOR DOUBLE TRACKS RADSAFE, HIGH CLOUDS, ILSS, F, HIGH CLOUDS, 5 - OPERATOR DOUBLE TRACKS RADSAFE, HIGH CLOUDS, ILSS, F, HIGH CLOUDS, 5 - OPERATOR DOUS PPE, HEADS INTO EZ, SERVICE EQUIPMENT OB 20 - LABORER DONS PPE, INTO EZ TO ASSIST OPERATOR, SEPERATE PLASTIC FROM SPOLS PILE. OPERATOR BEGINS (CONTINUES) BACKALLING EXCAUNTIONI 0910 - RCT (R.D.) DONS PPE, ACCESS "DECONTINUES) BACKALLING EXCAUNTIONI 1000 - ESCORTED RSL OFF RANGE TINE 1130 - FLICL TRUCK AND ELECTRICAN ON SITE, DISCONNECT TRAILER. 1511145 - OPERATOR COMES OUT OF EZ FOR LUNCH. 1240 - OPERATOR COMES OUT OF EZ FOR LUNCH. 1240 - OPERATOR, DANSER , NELSON & BROWN ON SITE. 1430 - TENRETON, BANSTER, NELSON & BROWN ON SITE. 1430 - TENRETON, BANSTER, NELSON & BROWN ON SITE. 1430 - TENRETON, BANSTER, NELSON & BROWN ON SITE. 1430 - TENRETON, TEAMSTER, NELSON & BROWN ON SITE. 14530 - BEGIN FILLING BOXS. 1450 - B-2555 FILLED WITH SOL, MOVE TO CONTINUENTEDSTORAGE AREA FOR 1530 - BEGIN FILLING BOXS. 1450 - SECURE AND DEPART LOCATEON ************************************		Work continued from Page 09	MAY OO		BOOK NO. 3	
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<ul> <li>"STOMP AND TROMP" IN ORDER TO DEPOST AREA.</li> <li>1000 - ESCORTED RSL OFF RANGE 71 N.</li> <li>1020 - BLEW FRONT LEFT TIRE ON BACKHOE, CONTRACTED B. TEMPLETON AT THE OPEICE RE REPAIR.</li> <li>1130 - FUEL TRUCK AND ELECTRICAN ON SITE, DISCONNECT TRAILER.</li> <li>51145 - OPERATOR COMES OUT OF EZ FOR LUNCH.</li> <li>1240 - OPERATOR COMES OUT OF EZ FOR LUNCH.</li> <li>1240 - OPERATOR &amp; LABORER INTO EZ, USE BACKHOE RUCKET D TRANSFER SOIL FROM STOCK PILE TO EXCANATIONI FUEL TRUCK &amp; GETECAN DEPART (SECOND BACK HOE TIRE LOGISTICS,</li> <li>#30 - TEMPLETON, THANSTER, NELSON &amp; BROWN ON SITE.</li> <li>9 - HOOK-UP WATER RUFFALO. VARIOUS TIRE CALLS</li> <li>1455 - TEMPLETO, TEAMSTER, NELSON &amp; BROWN DEPART</li> <li>BEGIN WEIGHING B-ZSS,</li> <li>1530 - BEGIN FILLING BOXS</li> <li>1600 - B-ZSS FILLED WITH SOL, MOVE TO CONTRAMINATED STORAGE AREA FOR</li> <li>5 SUPES</li> <li>- MOVE BACKHOE TO FENCE, SWIPE TIRE FOR REPAIR</li> <li>1630 - SECURE AND DEPART LOCATION</li> <li>WORK CONTINUED TO BE BOOM DEPART (R.D.)</li> <li>SUPPLY TROUGTION CORROR OF AND DEPART LOCATION</li> <li>WORK CONTINUED TO BE DEFINE OF AND DEPART LOCATION</li> </ul>	0910.	- RCT (R.D.) DONS PPE,	Access "De	ONTAM	WATION FACILITY	FOR
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	SIGNATUR	Del ACo	$\rightarrow$			DATE OG MAY OD
	DISCLOSED	TO AND UNDERSTOOD BY	DATE	WITNESS		T

TITLE CAU486, DOUBLE TRACKS RADSAFE PROJECT NO. Work continued from Page 10 May 00 BOOK NO. 3	69
0630 - MET DED TIRE AT MAIN GATE.	
0700 - BACK TO BN OFFICE, LOGISTICS, TAILGATE SAFETY	MEETING.
0800 - ARRINE DUBLE TRACKS SITE, CLEAR, ± 60°F, BREEZY.	
- PREP TO WEIGH B-255. TIRE REPAIR COMPLETE*	
5 <u>9820 - BEGIN WEIGHING, B-255.</u>	
- SEFLIP TO ENTER EZ TO BACKFILL EXCAVATION.	
0640 - OPERATOR INTO EZ TO BACKFILL EXCAUATION, PHOTOS	
- WASTE OPS CLOSING, SECURING B-255 FOR TRANSPORT	ATION.
-LABORERS REMOVING FENCE FROM OLD DECONTAMINATION FR	24474
10 3940 - COMPLETED BACKFILLING EXCAUATION, SURVEY FOR RELEA	ISE
1010 - WATER DOWN EXCAUATION.	_
1200 - LUNCH, TELECON W/ RANGE SCHEDULING RE TOMORROWS B	OMB DROP
1230- PREP FOR LOADING B-255. WIND INCREASING-BLO	WING DUST
1300-TRUCKS ARRIVE, LOAD B-255.	
15 14 15-LOIAD GENERATOR	
1435 - FORK LIFT AND TRUCK (TRACTOR WITH FLATBED) TO LOADING RAIN	1P ABOUT
4 MI EAST OF DOUBLE TRACKS SITE,	
1500 - LOAD UP RCT/SUPPLY /TESTING EQUIPMENT TRAILER	
1600 - I DEPARTED SITE ESCORTING 3 TRUCKS AND 4 OTHER WOR	K Vehicles
LEAVING BLL TO AND OPERATOR + A LABORER & HEALTH # S	AFETY +-O
PULL POSTS VISIBILITY DOWN TO ABOUT 2 MM, 40-50 MP-	
1630-BN OFFICÉ	· · · <del>·</del>
1700 - TEMPLETON & CREW BLACK TO OFFICE . PROJECT DOCC	MAGNITATION
1745 - Secure & DEPART OFFICE	
25	
XWE WHERE DIRECTED TO USE DED TIRE FROM TONOPAH BY SUEZANNE,	AREA 6 EQUIP.
WOFK CONT	inued to Page
SIGNATURE	DATE OMAY.00
DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS	DATE
	1



# **APPENDIX E**

# **COMMENT RESPONSE DOCUMENTATION**

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a. Comment Types: M=Mandatory S=Suggested

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